Four Week Electives for Third and/or Fourth Year Medical Students

<u>ANSTH 772</u> - Pain Management Elective PREREQUISITE: Third year core clerkships

ANSTH 772 - Pain Management Elective - 5 credits

COURSE DIRECTOR: Dr. Vitaly Gordin

vgordin@hmc.psu.edu 531-5680

Course Coordinator: Ms. Connie Williard

cwilliard@hmc.psu.edu LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 1

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkships.

REPORT TO: Vitaly Gordin, M.D.

TIME AND LOCATION: 8:00 a.m.; Pain Clinic

DESCRIPTION: The course involves the medical evaluation and treatment of patients with pain due to cancer and other chronic pain syndromes. The student is closely involved with the diagnosis and treatment of various painful conditions. Emphasis is placed on evaluation of the pain patient; the pharmacology of analgesic and adjuvant agents; and interventional techniques for the treatment of pain.

<u>Grading</u> for this rotation will be based on faculty evaluation of the student's knowledge base, participation, and interest. As this rotation does not require any of the traditional duties of internship other than evaluation and diagnosis, and acting internship is not available.

ANSTH 796 - Individual Studies

PREREQUISITE: Third year core clerkships

ANSTH 796 - Individual Studies Elective - 5 credits COURSE DIRECTOR: Faculty Research Advisor

Course Coordinator: Ms. Pamela Myers

ppmvers@hmc.psu.edu 531-8433

LOCATION: N/A

MAXIMUM NUMBER OF STUDENTS: N/A

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkships.

DESCRIPTION: Special studies program, usually involving investigative work. All hours

and assignments by arrangement with a member of the Anesthesia faculty.

DERM 732 - Dermatology Elective

PREREQUISITE: Third Year Medicine Clerkship

DERM 732 - Dermatology Elective - 5 credits

COURSE DIRECTOR: Dr. Jennie Clark: jclarke1@hmc.psu.edu 531-8307

Course coordinator: Ruth Howe: rhowe@hmc.psu.edu

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 3 (HY)

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third Year Medicine Clerkship

TIME AND LOCATION: 7:45 a.m.; Suite 4300-UPCII

DESCRIPTION: This elective is designed to provide the student with an extensive, indepth exposure to clinical dermatology. They will be involved, in a primary way, in the evaluation and management of patients in the dermatology clinics. Students will also be provided the opportunity to do the initial evaluation of the inpatient consults. Students attend the daily dermatology rounds, as well as dermatology conferences.

Course Objectives: The goals of this elective are for the student to:

- 1. Become fluent in the description of skin diseases.
- 2. Develop differential diagnosis of skin diseases.
- 3. Become acquainted with dermatologic therapies.
- 4. Know when to refer to a dermatologist.

Course Specific Requirements: Attend clinics, conferences rounds. See patients efficiently and appropriately. Read *Principles of Dermatology* and *Atlas of Differential Diagnosis in Dermatology*

DERM 732A - Derm/Pathology

PREREQUISITE: Third year core clerkships

DERM 732A - Derm/Pathology - 5 credits

COURSE DIRECTOR:

Michael loffreda, M.D.: mioffreda@hmc.psu.edu 531-8307 Course Coordinator: Ruth Howe: rhowe@hmc.psu.edu

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 2

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkships.

TIME AND LOCATION: 7:45 a.m.; Suite 4300-UPCII

DESCRIPTION: Intended for students who are pursuing a career in dermatology or pathology, the course involves studying the pathology of cutaneous disorders. At a multi-headed microscope, the students will observe "sign out" of skin biopsies obtained in outpatient and inpatient settings that are performed by dermatologists, plastic

surgeons, ophthalmologists and family practitioners. Students will have the opportunity to preview cases on their own and are expected to do so with the aid of dermatopathologists, ideally a project that can be feasibly completed within the one month-long rotation and lead to publication. By the end of the course, students are expected to be able to diagnose common skin lesions on their own, which will be assessed by questioning at the microscope. This course complements what is learned in dermatology and pathology rotations. A four-week block is recommended, with a maximum of two students at any given time.

DERM 796 - Individual Studies

PREREQUISITE: Restricted to students enrolled in the Penn State College of Medicine

DERM 796 – Dermatology Individual Studies – 5 credits

PROGRAM DIRECTOR: Jennie T. Clarke, M.D.

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 1

WHEN OFFERED: All rotations LENGTH OF ELECTIVE: 1 month

PREREQUISITE: Restricted to students enrolled in The Pennsylvania State University College of Medicine. Students must have completed the dermatology elective (DERM 732). Individual research topics selected by students taking this course will stem from experiences gained in the clinic setting during the preceding DERM 732 course.

ADMINISTRATIVE CONTACT: Kim Spangler, Residency Program Coordinator

717-531-0003 x283481 or kspangler@hmc.psu.edu

TIME AND LOCATION: 8:00 AM, UPC II, Room 4200B (Dermatology Conference

Room).

DESCRIPTION: This course will allow senior medical students to work under the supervision of a Dermatology faculty member or members to develop a clinical or laboratory based research project that will be performed during the 4 week block. Students will be involved in the project design, institutional review board process (when needed) statistical planning and analysis, and preparation of a presentation of research findings in the format of a manuscript for publication and/or presentation at a dermatology conference. Students will also participate in the weekly didactic sessions with the dermatology residents, the weekly departmental journal club, and monthly Grand Rounds and patient conferences. These sessions will provide exposure to a broad range of dermatologic topics in addition to the area of research focus.

COURSE OBJECTIVES:

The goals of this elective are for the student to:

- Carry out individual research, clinical or laboratory.
- Critically analyze the dermatologic literature pertaining to the research topic(s).
- Present or submit research findings via manuscript/lecture/poster.

EMED 754 - Medical Toxicology Elective

PREREQUISITE: Completion of third year clerkships

EMED 754 - Medical Toxicology Elective - 5 credits

COURSE DIRECTOR: J. Ward Donovan, M.D.: 782-5185 beeper 221-7107

Course Coordinator: Tracey Helmick, R.N.: 782-3362

LOCATION: Harrisburg

MAXIMUM NUMBER OF STUDENTS: 1

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Completion of third year clerkships.

REPORT TO: Tracey Helmick, R.N.

TIME AND LOCATION: 7:30 A.M., Harrisburg Hospital

DESCRIPTION: A one-month toxicology elective for fourth year medical students includes the following educational opportunities:

- 1. Toxicology admissions and consults. The Toxicology Service currently admits or consults on approximately 50 toxicologic cases per month at the Medical Center.
- 2. Weeky conferences. The conferences include lecture presentations, journal clubs, toxicology chapter reviews. and topic of the week presentations.
- 3. Poison Center sign-in rounds. From 7:30 a.m. each day in the Poison Center the management of active Poison Center referral cases are discussed and reviewed by the attending physicians. Students are encouraged to spend time observing and assisting the poison information specialists in the poison center.
- 4. Independent study. The admissions consults and Poison Center cases should expose the students to most common toxicologic poisonings. Journal articles and outlines will be available for the students to review as these cases appear. There will be alist of suggested poisonings for review so that if certain cases do not occur through the month the student will have the opportunity to read and discuss these poisonings with the attendings during the last week of the rotation.
- 5. Research. The Toxicology Service is actively participating in a number of ongoing clinical studies.

FCMED796 - Individual Studies

PREREQUISITE: Limited to students enrolled in the Penn State College of Medicine

FCMED 796 - Individual Studies Elective - 5 credits

COURSE DIRECTOR: Faculty Research Advisor & Linda Kanzleiter, M.Ps.Sc.,

D.Ed.: lkanzleiterkeister@hmc.psu.edu, 531-8736

Course Coordinator: Wendy Willenbecher: wwillenbecher@hmc.psu.edu

LOCATION: N/A

MAXIMUM NUMBER OF STUDENTS: N/A

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Limited to students enrolled in the Penn State College of Medicine.

DESCRIPTION: Creative projects including non-thesis research supervised on an

individual basis and which fall outside the scope of formal courses.

STUDENTS <u>MUST</u> CONTACT THE FAMILY AND COMMUNITY MEDICINE OFFICE

FOR APPROVAL <u>BEFORE</u> REGISTERING FOR THIS ELECTIVE.

FCMED797 - Special Topics

PREREQUISITE: Limited to students enrolled in the Penn State College of Medicine

FCMED 797 - Special Topics Elective - 5 credits

COURSE DIRECTOR: Faculty Research Advisor & Linda Kanzleiter, M.Ps.Sc.,

D.Ed.: lkanzleiterkeister@hmc.psu.edu, 531-8736

Course Coordinator: Wendy Willenbecher: wwillenbecher@hmc.psu.edu

LOCATION: N/A

MAXIMUM NUMBER OF STUDENTS: N/A

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Limited to students enrolled in the Penn State College of Medicine **DESCRIPTION:** Opportunity for students to create a family medicine related experience

that meets their individual needs.

STUDENTS MUST CONTACT THE FAMILY AND COMMUNITY MEDICINE OFFICE

FOR APPROVAL BEFORE REGISTERING FOR THIS ELECTIVE.

MED 715 - Clinical Elective in Infectious Disease

PREREQUISITE: Third year Medicine Clerkship

MED 715 - Clinical Elective in Infectious Disease - 5 credits

COURSE DIRECTOR: Dr. Tonya Crook: tcrook@hmc.psu.edu 531-8881

Course Coordinator: Ms. Deb Lutz: dlutz@hmc.psu.edu

LOCATION: Hershey, Harrisburg (Dr. John Goldman), Reading (Dr. Lisa Motz), Lehigh

(Dr. Luther Rhodes), and York (Dr. Brian Pollack)

MAXIMUM NUMBER OF STUDENTS: 2 (HY), 1 (HBG), 1 (Reading), 1 (Lehigh), and 1

(York)

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year Medicine Clerkship.

ADMINISTRATIVE CONTACT: Deb Lutz

TIME AND LOCATION: 9:00 a.m.; Room C6833

DESCRIPTION: This elective provides exposure to an inpatient consultation service in Infectious Diseases. The student(s) will be responsible for workup and following patients, presenting the case and all follow-up data to the attending physician and

others on the service.

Course Objectives: Diagnosis, laboratory workup and treatment of a variety of Infectious Diseases by first-hand experience. In addition, a collection of articles on twenty-four of the most important Infectious Diseases topics is reviewed monthly.

Course Specific Requirements: Attendance at all case conferences, ward rounds, and laboratory visits. Presentation of cases at the weekly clinical conference.

MED 723 - Clinical Elective in Gastroenterology

PREREQUISITE: Third year Medicine Clerkship

MED 723 - Clinical Elective in Gastroenterology - 5 credits

COURSE DIRECTOR: Dr. Thomas McGarrity: tmcgarrity@hmc.psu.edu 531-3834

Course Coordinator: Ms. Cindy Strine: cstrine@hmc.psu.edu

LOCATION: Hershey, Reading (Dr. Lisa Motz), Lehigh (Dr. Carl D'Angelo) and York

(Dr. Brian Pollack)

MAXIMUM NUMBER OF STUDENTS: 2 (HY), 1 (Reading), 1 (Lehigh) and 1 (York)

WHEN OFFERED: All Rotations LENGTH OF TIME: 1 Month

PREREQUISITE: Third year Medicine Clerkship.

ADMINISTRATIVE CONTACT: Cindy Strine, 531-1017

TIME AND LOCATION: 8:00 a.m.; Room C5800

DESCRIPTION: The gastroenterology service will provide a busy and intensive clinical training ground with emphasis on the pathophysiological approach to the management of a broad spectrum of gastrointestinal, hepatobiliary and pancreatic diseases.

Course Objectives: Main topics and concepts covered during the elective are; peptic ulcer disease, gastrointestinal oncology, pancreatitis, irritable bowel syndrome, inflammatory bowel disease, obstructive jaundice.

Course Specific Requirements: Attendance at three outpatient GI clinics weekly.

Attendance at GI Conferences.

MED 724 - Hematology Elective

PREREQUISITE: Third Year Medicine Clerkship

MED 724 - Hematology Elective - 5 credits

COURSE DIRECTOR: Dr. Hamid Al-Mondhiry: halmondhiry@hmc.psu.edu 531-8401

Course Coordinator: Ms. Linda Nelson: Inelson@hmc.psu.edu

LOCATION: Hershey, Reading (Dr. Lisa Motz), Lehigh (Dr. Eliot Friedman), and York

(Dr. Brian Pollack)

MAXIMUM NUMBER OF STUDENTS: 1 (HY), 1 (RDG), 1 (Lehigh), and 1 (York)

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third Year Medicine Clerkship.

ADMINISTRATIVE CONTACT: For Hershey-Linda Nelson

TIME AND LOCATION: 8:00 a.m.; Room C6606

DESCRIPTION: This elective provides supervised clinical experience in the diagnosis and management of hematologic diseases. The fourth year student is responsible to the

hematology attending on service for that month and is expected to assist in the evaluation of patients seen in the outpatient clinics, as well as those seen on the inpatient hematology consultation service. After performing a complete history and physical examination, the student presents the clinical findings to the attending physician, confirmation at the bedside, and together with the attending physician, examines relevant peripheral smears, bone marrow preparations, and x-ray studies. The student is expected to attend ward rounds, weekly case conference, lymphoma board, and the combined hematology/oncology conference.

Course Objectives: Familiarity with basic knowledge of various types anemias, leukopenia and thrombocytopenia. General information regarding the diagnosis and management of hemorrhagic and thrombotic disorders.

Course Specific Requirements: Consult presentation, presentation and discussion of information related to clinical problems encountered conference presentation when applicable.

MED 725 - Oncology Elective

PREREQUISITE: Third Year Medicine Clerkship

MED 725 - Oncology Elective - 5 credits

COURSE DIRECTOR: Dr. Harold Harvey: hharvey@hmc.psu.edu 531-8677

Course Coordinator: Ms. Lynn Kreider: lkreider@hmc.psu.edu

LOCATION: Hershey, Reading (Dr. Lisa Motz), Lehigh (Dr. Eliot Friedman), and York

(Dr. Brian Pollack)

MAXIMUM NUMBER OF STUDENTS: 2 (HY), 1 (Reading), 1 (Lehigh), and 1 (York)

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third Year Medicine Clerkship.

REPORT TO: Lynn Kreider

TIME AND LOCATION: Call prior to start of rotation for instructions.

DESCRIPTION: The student will spend this rotation on the oncology consult service and be expected to: 1) participate in daily patient rounds with an oncology attending and fellow, 2) to share consults with the fellow, 3) attend outpatient clinics, new patient evaluations and follow-ups, 4) attend didactic sessions and conferences in the division (approx. 5/week).

Course Objectives: Main topics/concepts covered during the elective include:

- 1. Appreciation of interdisciplinary management of common solid tumors
- 2. Understanding the principles of supportive care in oncology especially pain management
- 3. Learn principles of chemotherapy mechanisms of action, use and complications **Course Specific Requirements:** One (1) assigned topic presentation.

MED 727 - Pulmonary Medicine Elective

PREREQUISITE: Third Year Medicine Clerkship

MED 727 - Pulmonary Medicine Elective - 5 credits

COURSE DIRECTOR: Dr. Kevin Gleeson: kgleeson@hmc.psu.edu 531-6525

Course Coordinator: Ms. Renee Morton: rmorton@hmc.psu.edu

LOCATION: Hershey, Lehigh, and York (Dr. Brian Pollack)

MAXIMUM NUMBER OF STUDENTS: 2 (HY), 1 (Lehigh), and 1 (York)

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third Year Medicine Clerkship.
ADMINISTRATIVE CONTACT: Renee Morton
TIME AND LOCATION: 8:00 a.m., Room 5860

DESCRIPTION: Student is responsible for initial consultation, case presentation, and daily follow-up. Evaluation of the patient is then reviewed by faculty on a bedside presentation on daily rounds. Chest x-ray, pulmonary function testing, and other laboratory evaluations are also the responsibility of the student as the month progresses. A varied outpatient environment is also available to the student, including pulmonary consultation, sleep disorders, allergy, lung cancer, and occupational pulmonary medicine. Students are responsible for creating one multi media case for the Web site and will meet with a trained patient/actor to develop clinical skills.

Course Objectives:

- To become familiar with the diagnosis, management and treatment of common respiratory system disorders in an acute patient care environment.
- To understand basic pulmonary physiology to assist and guide patient care.
- To be able to interpret normal and abnormal chest radiological studies.

Course Specific Requirements: Students are responsible for creating one multi-media case for the website.

MED 728 - Nephrology Elective

PREREQUISITE: Third Year Medicine Clerkship

MED 728 - Nephrology Elective - 5 credits

COURSE DIRECTOR: Dr. W. Brian Reeves: wreeves@hmc.psu.edu 531-8156

Course Coordinator: Ms. Tracey Erickson: terickson@hmc.psu.edu

LOCATION: Hershey, Lehigh (Dr. Joseph Guzzo), and York (Dr. Brian Pollack)

MAXIMUM NUMBER OF STUDENTS: 2 (HY), 1 (Lehigh), and 1 (York)

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third Year Medicine Clerkship. **ADMINISTRATIVE CONTACT:** Tracy Erickson

TIME AND LOCATION: For Hershey-8:00 a.m.; Room C5830, BMR Building **DESCRIPTION:** The Neprhology elective introduces students to the diagnosis and

management of patients with fluid and electrolyte disorders, acute renal failure, and chronic renal failure. The elective is delivered through the inpatient Nephrology consult service at the Hershey Medical Center. Students round with the consult service, evaluate new patients, formulate diagnostic and therapeutic plans, and discuss each patient with the attending staff. Practical experience is supplemented with weekly conferences.

Course Objectives: Main topics and concepts covered during the elective are:

- Methods to evaluate kidney function
- Diagnosis and treatment of acute renal failure
- Diagnosis and treatment of chronic renal failure
- Diagnosis and treatment of proteinuria
- Diagnosis and treatment of hypertensiona
- Diagnosis and treatment of hyponatremia
- Diagnosis and treatment of hyperkalemia
- · Diagnosis and treatment of acid-base disorders
- · Diagnosis and treatment of edema

Course Specific Requirements: Present a patient at case conference. Briefly discuss a paper at literature update conference.

<u>MED 734 - Endocrinology Elective</u>

PREREQUISITE: Third Year Medicine Clerkship

MED 734 - Endocrinology Elective - 5 credits

COURSE DIRECTOR: Dr. Andrea Manni: amanni@hmc.psu.edu 531-8395

Course Coordinator: Ms. Lisa Doster: Idoster@hmc.psu.edu

LOCATION: Hershey, Lehigh (Dr. Gretchen Perilli), and York (Dr. Brian Pollack)

MAXIMUM NUMBER OF STUDENTS: 2 (HY), 1 (Lehigh), and 1 (York)

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third Year Medicine Clerkship.

ADMINISTRATIVE CONTACT: For Hershev-Lisa Doster

TIME AND LOCATION: 8:00 a.m.; Room C6636

DESCRIPTION: To provide experience n the diagnosis and management of all endocrine and metabolic disorders both in the outpatient and inpatient setting. Clinical experience is complemented by didactic lectures, e.g., weekly endocrine grand rounds, one-on-one teaching sessions with fellows.

Course Objectives: Main topics and concepts covered during the elective are: pathophysiology of endocrine disorders, clinical manifestations and diagnosis of endocrine disease, treatment of endocrine diseases, utilization and interpretation of laboratory tests, interphase of endocrine diseases and other systemic illnesses.

Course Specific Requirements: Attend endocrine conferences, clinics, rounds and teaching sessions. Case presentations and review of pertinent literature.

MED 736 - Clinical Management of Obesity

PREREQUISITE: At least one core clerkship that requires direct patient care

MED 736—Clinical Management of Obesity—5 credits

COURSE DIRECTOR: Dr. Jarol Boan: jboan@hmc.psu.edu 531-8161

Course Coordinator: Ms. Lorna Lausch: <u>llausch@hmc.psu.edu</u>

Location: Hershey

Maximum Number of Students: 1
WHEN OFFERED: All Rotations
LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: At least one core clerkship that requires direct patient care.

REPORT TO:

TIME AND LOCATION: Contact Lorna Lausch prior to start of rotation for instructions. **DESCRIPTION:** This 4-week interdisciplinary elective is a collaboration between the Departments of Medicine, Pediatrics, and Surgery. This elective provides the students with an opportunity to learn a clinical approach to obesity prevention and treatment. To establish a context for prevention and treatment students will gain an understanding of the prevalence of obesity, genetic, environmental, and behavioral causes, and adverse health effects. In particular, students will relationship of obesity and sedentary lifestyle to the following chronic disorders: hypertension, insulin resistance, and dyslipidemia. Students will learn to counsel/motivate patients to make informed decisions consistent with adopting and maintaining a healthy lifestyle, including establishing appropriate dietary and exercise goals, and the behavioral skills to reach these goals.

Students will perform one patient encounter per clinic, where the student will be expected to perform a history and physical and design a plan specific for that patient. One of these sessions will be interchanged so the student will be able to observe one surgical procedure at Hershey Medical Center. Evaluation of patients will be augmented by Weight Management Program staff and will include interaction with clinical dietitians and other staff to learn nutrition, physical activity, and behavioral skills. Students will be given an opportunity to perform body composition analysis. Students will be expected to demonstrate evidence of independent reading, and will complete a short review paper on an obesity related topic.

MED 738 - Cardiology Elective

PREREQUISITE: Third Year Medicine Clerkship

MED 738 - Cardiology Elective - 5 credits

COURSE DIRECTOR: Dr. Edward Lankford: elankford@hmc.psu.edu 531-4878

Course Coordinator: Nakomis Maher: nmaher@hmc.psu.edu

LOCATION: Hershey, Lehigh (Dr. Larry Jacobs), York (Dr. Brian Pollak), and Reading

(Dr. Lisa Motz)

MAXIMUM NUMBER OF STUDENTS: 2 (HY), 2 (LVH), 1 (York), and 1 (Reading)

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third Year Medicine Clerkship.

REPORT TO: Nakomis Maher x287593

TIME AND LOCATION: 8:30 a.m.; H1518

DESCRIPTION: This course is for fourth year medical students who wish to expand clinical skills in cardiology. Students will gain experience with interpretation of common cardiovascular diagnostic procedures and work with a Cardiology Fellow on the cardiology inpatient consultation service. Students are responsible for evaluating. presenting, and following patients on all services seen in consultation by cardiology. Students have the opportunity to spend half days in the following areas: echocardiography, exercise stress testing, and cardiac catheterization laboratories to observe how procedures are performed and interpreted. Other learning activities can be arranged with the attending cardiologist and fellow on services if desired. Course Objectives: By the completion of this course students will be able to assess the cardiac risk of a patient about to undergo non-cardiac surgery. They will be familiar with recognizing common electrocardiographic abnormalities, able to recognize and treat common arrhythmias, and cardiac causes of chest pain, dyspnea, and syncope. **Course Specific Requirements:** Attendance at cardiology presentations if applicable. Students are expected to examine and evaluate patients and present findings to the faculty cardiology on services.

MED 747 – Allergy and Immunology Elective

PREREQUISITE: Third Year Medicine Clerkship

MED 747 - Allergy and Immunology Elective - 5 credits

COURSE DIRECTOR: Dr. Timothy Craig: tcraig@hmc.psu.edu 531-6525

Course Coordinator: Ms. Renee Morton: rmorton@hmc.psu.edu

LOCATION: Hershev

MAXIMUM NUMBER OF STUDENTS: 2

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 4 weeks

PREREQUISITE: Third Year Medicine Clerkship.

REPORT TO: Renee Morton

TIME AND LOCATION: Call Dr. Craig's cell: 717-991-4771

DESCRIPTION: A student rotating on the Allergy service will experience an active and up-to-date Allergy and Immunology clinical service. The student will be expected to see patients during clinic hours. Off clinic hours reading, studying and hopefully some type of investigation or formally written paper that could be submitted to a journal will be encouraged. The areas that will be covered include: asthma, rhinitis, sinusitis, allergic skin rashes, immunodeficiencies, chronic fatigue syndrome, bee anaphylaxis, drug adverse events, food allergy, travel medicine and occupational medicine.

Course Objectives: Main topics and concepts covered during the electives are:

- 1. Understanding of disease that Allergy and Immunology service treats.
- To become proficient in the care of the most common allergic diseases.
- 3. To read the allergy literature that will be necessary for boards and future career.

Course Specific Requirements: Students will be expected, but not required, to present a short lecture during the elective.

<u>MED 748 - Rheumatology Elective</u>

PREREQUISITE: Third Year Medicine Clerkship

MED 748 - Rheumatology Elective - 5 credits

COURSE DIRECTOR: Dr. Sharon Banks: sbanks@hmc.psu.edu 531-5384

Course Coordinator: Ms. Marilyn Hoke: mhoke@hmc.psu.edu

LOCATION: Hershey, Reading (Dr. Lisa Motz), Lehigh (Dr. Albert Abrams), and York

(Dr. Brian Pollack)

MAXIMUM NUMBER OF STUDENTS: 1 (HY), 1 (Reading), 1 (Lehigh), and 1 (York)

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third Year Medicine Clerkship. ADMINISTRATIVE CONTACT: Marilyn Hoke TIME AND LOCATION: 8:00 a.m.; Room C5840

DESCRIPTION: Students will participate in inpatient and outpatient clinical services and in didactic sessions. The students will be actively involved in the initial evaluation and ongoing care and management of outpatient consultation and follow-up patients and inpatient consultations. Students will participate in outpatient clinic and daily consultation rounds. Weekly didactic sessions include case conference, journal club, bone and joint radiology, and small group sessions. Required reading includes assigned section in the Arthritis Foundation's Primer on the Rheumatic Diseases, which is provided to the student. Opportunities for interested students to participate in pediatric rheumatology clinics are available.

Course Objectives: Instructional focus on the development of the musculoskeletal joint examination, understanding pathophysiology of rheumatic diseases, the differential diagnosis of rheumatic diseases, and the use of laboratory and radiology diagnostic tools in evaluation of the rheumatic disease patients. Diseases studied include: rheumatoid arthritis, systemic lupus erythematosus, spondyloarthropathies, gout, osteoarthritis, polymyositis, infectious arthritis, and outpatient orthopedic problems.

Course Specific Requirements: Case conference presentations.

MED 796 - Individual Studies

PREREQUISITE: Restricted to students enrolled in the Penn State College of Medicine by special arrangement with the Department of Medicine faculty

MED 796 - Individual Studies Elective - 5 credits

COURSE DIRECTOR: Dr. Philip Masters: pmasters@hmc.psu.edu 531-8390

Course Coordinator: Ms. Debra Lutz: <u>dlutz@hmc.psu.edu</u>

LOCATION: N/A

MAXIMUM NUMBER OF STUDENTS: N/A

WHEN OFFERED: All Rotations

LENGTH OF ELECTIVE: Two to Four Weeks

PREREQUISITE: Restricted to students enrolled in The Pennsylvania State University College of Medicine by special arrangement with the Department of Medicine faculty.

ADMINISTRATIVE CONTACT: Debra Lutz

TIME AND LOCATION: N/A

DESCRIPTION: Clinical or laboratory research on a selected topic by special arrangement with and/or approval by a Department of Medicine faculty member serving

as preceptor.

Course Objectives: Varies with selected topic.

Course Specific Requirements: Varies with selected topic.

MED 797 - Special Topics

PREREQUISITE: Restricted to students enrolled in the Penn State College of Medicine who have completed the required preclinical training

MED 797 - Medicine Special Topics Elective - 5 credits

COURSE DIRECTOR: Dr. Philip Masters: pmasters@hmc.psu.edu 531-8390

Course Coordinator: Ms. Debra Lutz: dlutz@hmc.psu.edu

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: Varies

WHEN OFFERED: All Rotations

LENGTH OF ELECTIVE: Four Weeks

PREREQUISITE: Restricted to students enrolled in The Pennsylvania State University

College of Medicine who have completed the required preclinical training.

ADMINISTRATIVE CONTACT: Debra Lutz

TIME AND LOCATION: N/A

DESCRIPTION: Advanced clinical training in General Internal Medicine or an internal medicine subspecialty by arrangement with and/or approval by a Department of Medicine faculty member serving as preceptor.

Course Objectives: Varies with selected subspecialty.

<u>OBGYN 720 -</u> Clinical Outpatient Gynecology (Ambulatory & Adolescent

Gynecology)

PREREQUISITE: Third year core clerkships

OBGYN 720 - Clinical Outpatient Gynecology (Ambulatory & Adolescent

Gynecology) - 5 credits

COURSE DIRECTOR: Dr. Carie D'Agata: cdagata@hmc.psu.edu 531-5994

Course Coordinator: Ms. Cheryl Mathias: amathias1@hmc.psu.edu

LOCATION: Hershev

MAXIMUM NUMBER OF STUDENTS: 1
WHEN OFFERED: September through April

LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkships.

REPORT TO: TBA

TIME AND LOCATION: TBA

DESCRIPTION: This course involves active participation in a community outpatient obstetric and gynecology practice. The student will participate in outpatient evaluation and management of common and complex gynecologic problems, with a heavy concentration on primary care and preventative medicine. They will be exposed to the relationship with physician extenders, specifically certified nurse practitioners. Considerable individualization of course directives to meet student interests is possible, particularly involving pediatric/adolescent gynecology, vulvodynia, outpatient surgery, and hospital obstetrics.

OBGYN 721 - Clinical Reproductive Endocrinology/Infertility Elective

PREREQUISITE: Third year core clerkships

OBGYN 721 - Clinical Reproductive Endocrinology/Infertility Elective - 5 credits

COURSE DIRECTOR: Dr. William Dodson: wdodson@hmc.psu.edu 531-8478

Course Coordinator: Ms. Cheryl Mathias: amathias1@hmc.psu.edu

LOCATION: Hershey and Lehigh (Dr. Albert Peters)

MAXIMUM NUMBER OF STUDENTS: 1 (HY) and 1 (Lehigh)

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkships.

REPORT TO: TBA

TIME AND LOCATION: TBA

DESCRIPTION: This course will involve active participation in our outpatient practice of Reproductive Endocrinology and Infertility. It will introduce the student to the evaluation of infertility as well as modern treatment modalities. The student will participate in outpatient surgical procedures such as hysteroscopy and laparoscopy, as well as experience advanced reproductive technologies. The student will be expected to participate in a month long project to broaden his/her knowledge of reproductive endocrinology and infertility.

OBGYN 722 - Clinical Perinatal Medicine Elective

PREREQUISITE: Third year core clerkships

OBGYN 722 - Clinical Perinatal Medicine Elective - 5 credits

COURSE DIRECTOR: Dr. Serdar Ural: sural@hmc.psu.edu 531-6210 Course Coordinator: Ms. Cheryl Mathias: amathias1@hmc.psu.edu

LOCATION: Hershey and Lehigh (Wendy Schilling)

MAXIMUM NUMBER OF STUDENTS: 1 (HY) and 1 (Lehigh)

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkships.

REPORT TO: TBA

TIME AND LOCATION: TBA

DESCRIPTION: The student will be involved in the evaluation of high risk pregnancies in antepartum, intrapartum, and postpartum settings. The student will become familiar with many of the medical complications of pregnancies and their management. The student will also be exposed to pre- and post-conception genetic counseling and obstetrical ultrasonography.

OBGYN 796 - Individual Studies

PREREQUISITE: Limited to students of the Penn State College of Medicine

OBGYN 796 - Individual Studies Elective - 5 credits

COURSE DIRECTOR: Faculty Research Advisor

Course Coordinator: Ms. Cheryl Mathias: amathias1@hmc.psu.edu

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: N/A

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Limited to students of Pennsylvania State University College of

Medicine.

Report To: TBA

Time and Location: TBA

DESCRIPTION: Promotion of a scientific approach to basic questions in Obstetrics and Gynecology. Emphasize problem definition and methodology primarily involving but not limited to literature search and chart review. The educational goals and course of study must be submitted to the OBGYN department medical student director for approval, and acceptance of educational responsibility by the designated faculty must be confirmed prior to approval of the course.

OBGYN 797 - Special Topics

PREREQUISITE: Third year core clerkships

OBGYN 797 - OB/GYN Special Topics Elective - 5 credits

COURSE DIRECTOR: Dr. Robert Yarwood

Course Coordinator: Ms. Cheryl Mathias: amathias1@hmc.psu.edu

LOCATION: Hershey **LOCATION**: variable

MAXIMUM NUMBER OF STUDENTS: N/A

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkships

Report To: TBA

Time and Location: TBA

DESCRIPTION: Clinical experience in one or more aspects of Obstetrics and

Gynecology through work with a faculty physician. This course may include externships at non-affiliate institutions, as well as one-on-one work with a Hershey Medical Center faculty. The educational goals and course of study must be submitted to the OBGYN department medical student director for approval, and acceptance of educational responsibility by the designated faculty must be confirmed prior to approval of the course.

OPHTH 760 - Ophthalmology Elective

PREREQUISITE: 1st two years of medical school

OPHTH 760 - Ophthalmology Elective - 5 credits

COURSE DIRECTOR: Dr. William A. Cantore: wac1@psu.edu 531-8783

Course Coordinator: Ms. Sharon Dunkle: sdunkle@hmc.psu.edu

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 2 (HY)

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: 1st two years of medical school

REPORT TO: Dr. William Cantore

TIME AND LOCATION: 8:00 a.m.; UPC I, Suite 800

DESCRIPTION: This course is designed to provide a broad experience in ophthalmology for any students, regardless of their future career goals. Students will spend time with all faculty members, as well as some residents. The course goal is for students to understand the diagnosis, pathogenesis, and management of a variety of ophthalmic disorders, as well as become proficient in the use of a direct ophthalmoscope. Depending on the students' goals, the rotation schedule can be modified to accommodate particular interests, e.g., more neuro-ophthalmology for students planning a career in neurology or neurosurgery. Students are invited and encouraged to participate in all teaching activities of the Department, including resident lectures, fluorescein angiography conferences, Grand Rounds, etc. Students considering a career in Ophthalmology should request a rotation in July-October due to the early Ophthalmology match.

ORTHO 740- Rehabilitation Medicine Elective

PREREQUISITE: Third year core clerkships

ORTHO 740 - Rehabilitation Medicine Elective - 5 credits

COURSE DIRECTOR: Dr. Edward Fox: efox1@hmc.psu.edu 531-4816 Course Coordinator: Ms. Janice Woodley: jwoodley@hmc.psu.edu

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 1

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third Year Core Clerkships

REPORT TO: Janice Woodley

TIME AND LOCATION: 8:00 a.m., Room H3117, Hospital South Addition

DESCRIPTION: An in-depth experience in rehabilitation medicine. The student works under faculty supervision and will work with rehabilitation physicians and with the allied health professionals in the rehabilitation program in both the inpatient and outpatient settings. This elective is intended to acquaint students with the role of rehabilitation within the spectrum of healthcare and to provide an introduction to the medical specialty of physical medicine and rehabilitation.

ORTHO 796 - Individual Studies

PREREQUISITE: Limited to students enrolled in the Penn State College of Medicine

ORTHO 796 - Orthopaedic Individual Studies Elective - 5 credits COURSE DIRECTOR: Dr. Edward Fox: efox1@hmc.psu.edu 531-4816

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: N/A

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Limited to students enrolled in The Pennsylvania State University

College of Medicine.

DESCRIPTION: Creative projects, including non-thesis research, which fall outside the scope of formal courses. These projects are designed individually by the student and a supervising member of the Department of Orthopaedics and Rehabilitation faculty.

ORTHO 797 - Special Topics

PREREQUISITE: Third year core clerkships

ORTHO 797 - Orthopaedics Special Topics Elective - 5 credits COURSE DIRECTOR: Dr. Edward Fox: efox1@hmc.psu.edu 531-4816

LOCATION: Hershev

MAXIMUM NUMBER OF STUDENTS: N/A

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third Year Core Clerkships

DESCRIPTION: Formal courses given on a topical or special interest subject which may

be offered infrequently.

<u>PATH 770 - Anatomic Pathology Elective</u>

PREREQUISITE: First two years of medical school

PATH 770 - Anatomic Pathology Elective - 5 credits

COURSE DIRECTOR: Dr. Elizabeth Frauenhoffer: efrauenhoffer@hmc.psu.edu 531-

1673

Course Coordinator: Jeanne Faust: jfaust@hmc.psu.edu

LOCATION: Hershey, Lehigh (Dr. Dennis Cornfield) and York (Dr. Brian Pollack)

MAXIMUM NUMBER OF STUDENTS: 3 (HY), 1 (Lehigh) and 1 (York)

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: First two years of medical school.

REPORT TO: Elizabeth Frauenhoffer, M.D.

TIME AND LOCATION: 8:00 a.m., Room C7708

DESCRIPTION: Medical students electing the anatomic pathology rotation will participate in the diagnostic evaluation and clinical correlation of tissues sent to surgical pathology and cytology including frozen section diagnosis. Students will review this material with the Anatomic Pathology faculty and participate in surgical pathology conferences. More detailed information can be obtained from the Pathology website at http://www.pennstatehershey.org/web/pathology/education/students/electives.

<u>PED 740 - Pediatric Cardiology Elective</u>

PREREQUISITE: Third year core clerkship in Pediatrics

PED 740 - Pediatric Cardiology Elective - 5 credits

COURSE DIRECTOR: Dr. Gerald Johnson: gjohnson1@hmc.psu.edu 531-2050

Course Coordinator: Dr. Johnson

LOCATION: Offsite – Hershey Medical Center, Children's Heart Group

121 N. Nves Road, Suite D. Harrisburg, PA

MAXIMUM NUMBER OF STUDENTS: 2

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkship in Pediatrics.

REPORT TO: Dr. Gerald Johnson

TIME AND LOCATION: 8:30 a.m.; Children's Heart Group, 121 N. Nyes Road, Suite D,

Harrisburg, PA

DESCRIPTION: A broad experience in the diagnosis, assessment, and management of infants, children, and adolescents with congenital and acquired heart disease. Includes basic conferences, rounds, and clinics. Experience in echocardiography, exercise physiology, electrocardiography, cardiac catheterization, and other diagnostic procedures.

<u>PED 720 - Pediatric Endocrinology and Diabetes Elective</u>

PREREQUISITE: Third year core clerkship in Pediatrics

PED 720 - Pediatric Endocrinology and Diabetes Elective - 5 credits COURSE DIRECTOR:Dr. Ying Chang: ychang@hmc.psu.edu 531-4751 Course Coordinator: Ms Lydia Hibshman: lhibshman@hmc.psu.edu

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 2

WHEN OFFERED: All rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkship in Pediatrics.

REPORT TO: Dr. Chang x4751

TIME AND LOCATION: 8:30 a.m. and 1:00 p.m.; Pediatrics Subspecialty Clinic

DESCRIPTION: Pathophysiology, diagnosis and treatment of endocrine disorders,

including diabetes.

PED 726 - Clinical Genetics Elective

PREREQUISITE: Third year core clerkships

PED 726 - Clinical Genetics Elective - 5 credits

COURSE DIRECTOR: Dr. Roger Ladda: <u>rladda@hmc.psu.edu</u> 531-8414

Course Coodinator: Ms. Joan Wengert: jwengert@hmc.psu.edu

LOCATION: Hershev

MAXIMUM NUMBER OF STUDENTS: 1

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkships.

REPORT TO: Joan Wengert

TIME AND LOCATION: 8:30 a.m.: Room C7523

DESCRIPTION: Student is exposed to the broad knowledge base in human and medical genetics; skills are developed in the diagnosis of a wide range of genetic disorders, in the ability to record and interpret individual and family histories, in the integration of clinical and genetic information to provide genetic risk assessments and appropriate genetic counseling.

PED 728 - Pediatrics-Milton Hershey School Elective

PREREQUISITE: Third year core clerkships

PED 728 - Pediatrics-Milton Hershey School Elective - 5 credits

COURSE DIRECTOR: Dr. Elizabeth Adams 520-2379 Course Coordinator: Ms. Heather Adams 520-2379

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 1

WHEN OFFERED: All Rotations from end of August - end of May

PREREQUISITE: Third year core clerkships. **REPORT TO:** Heather Adams, 520-2379

TIME AND LOCATION: 8:30 a.m. at the Health Center

DESCRIPTION: This rotation takes place at a residential boarding school. You will experience an outpatient pediatric practice that serves the medical needs of children from Kindergarten through 12th grade. Office visits will include both acute and chronic issues as well as health maintenance visits. There is an emphasis on adolescent medicine during this rotation. You will be required to use the electronic medical record system for charting and documentation.

<u>PED 750 - Pediatric Nephrology & Hypertension Elective</u>

PREREQUISITE: Third year core clerkships in Medicine and Pediatrics

PED 750 - Pediatric Nephrology & Hypertension Elective - 5 credits

COURSE DIRECTOR: Dr. Steven Wassner: swassner@hmc.psu.edu 531-5707

Course Coordinator: Ms. Veronica Clark: vclark@hmc.psu.edu

LOCATION: Hershev

MAXIMUM NUMBER OF STUDENTS: 1

WHEN OFFERED: All Rotations
LENGTH OF ELECTIVE: 1 month

PREREQUISITE: Third year core clerkships in Medicine and Pediatrics.

REPORT TO: Veronica Clark

TIME AND LOCATION: 8:00 a.m.: Room H7512

DESCRIPTION: Clinical application of basic concepts in the diagnosis and management of children with acute and chronic renal disease, renal electrolyte abnormalities, hypertension and voiding dysfunction. The student is fully integrated into the flow of patient care and will be expected to see patients and write notes on a daily basis. S/he will be expected to present cases and prepare weekly talks on a variety of common pediatric renal and electrolyte problems. A pre and post test are given.

<u>PED 765 - Pediatric Neurology Elective</u>

PREREQUISITE: Third year core clerkships in Medicine and Pediatrics

PED 765 - Pediatric Neurology Elective - 5 credits

COURSE DIRECTOR: William Trescher, M.D.: wtrescher@hmc.psu.edu 531-8790

Course Coordinator: Ms. Deb Null: dnull@hmc.psu.edu

LOCATION: Hershev

MAXIMUM NUMBER OF STUDENTS: 1

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkships in Medicine and Pediatrics.

REPORT TO: Deb Null

TIME AND LOCATION: 8:15 a.m.; Room C7524

DESCRIPTION: Intensive exposure to neurological problems of childhood, including epilepsy, neurodevelopmental disorders, metabolic and neurodegenerative disorders, central nervous system malignancies, and neuromuscular disease. One-on-one instruction is complemented by conferences in neurology, neuroscience, neurophysiology, and developmental pediatrics. The students will be responsible for inpatient consultations as well as new consultations in the pediatric neurology outpatient clinics.

PED 796 - Individual Studies

PREREQUISITE: Limited to students enrolled in the Penn State College of Medicine

PED 796 - Pediatric Individual Studies Elective - 5 credits

COURSE DIRECTOR: Faculty Research Advisor

LOCATION: N/A

MAXIMUM NUMBER OF STUDENTS: N/A

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Limited to students enrolled in The Pennsylvania State University

College of Medicine.

DESCRIPTION: Individually supervised creative projects, including basic, or clinical pediatric research.

PED 797 - Special Topics

PREREQUISITE: Third year core clerkships

PED 797 - Pediatric Special Topics Elective - 5 credits

COURSE DIRECTOR: Dr. Kelly Leite: kleite@hmc.psu.edu 531-6846 Course Coordinators: Ms. Linda Watson: kleite@hmc.psu.edu &

Ms. Rose Santeusanio: rsanteusanio@hmc.psu.edu

MAXIMUM NUMBER OF STUDENTS: Varies - Individual arrangements with Program

Director

WHEN OFFERED: All Rotations

PREREQUISITE: Third year core clerkships.

DESCRIPTION: Advanced clinical training in Pediatrics or a pediatric subspecialty, in

which no course number already exists.

<u>PSCHT 774 - Child Psychiatry-Outpatient Elective</u>

PREREQUISITE: Third year Psychiatry clerkship

PSCHT 774 - Child Psychiatry-Outpatient Elective - 5 credits

COURSE DIRECTOR: Dr. Leonora Petty: |petty1@hmc.psu.edu| 531-7137

Course Coordinator: Ms. Pat Donnelly: pdonnelly@hmc.psu.edu

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 1

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year Psychiatry clerkship.

REPORT TO: Dr. Leonora Petty

TIME AND LOCATION: 8:30 a.m., Room 1156

DESCRIPTION: This four week elective on the child psychiatry outpatient service is designed to help the student learn to do a comprehensive child psychiatry evaluation and to work effectively with children and adolescents three to 17 years of age with psychiatric disorders. Student experience is similar in many respects to that of a resident in child psychiatry. The student participates in outpatient child evaluations in the Child Diagnostic Clinic and affiliated community clinics and follow up treatment of child or adolescent outpatients. The student is closely supervised in all these experiences by a resident and attending child psychiatrist.

This elective will build on the student's child psychiatry inpatient experience. The student will develop the skills and understanding of the following therapeutic modalities used with children and adolescent outpatients; brief psychotherapy and medication management, insight-oriented psychotherapy, supportive therapy, patient education and counseling of parents. On this elective the student will have the opportunity to evaluate children and adolescents in a variety of settings; the Child Diagnostic Clinic, the public schools and in affiliated community mental health clinics.

This elective is designed for students going into either primary care or psychiatry who want to enhance their skills in evaluating and treating the psychiatric aspects of their child patients' problems. One student may be accepted for this four week elective.

<u>PSCHT 775 - Consultation/Liaison Psychiatry Elective</u>

PREREQUISITE: Third year Psychiatry clerkship

PSCHT 775 - Consultation/Liaison Psychiatry Elective - 5 credits COURSE DIRECTOR: Dr. Mark Rapp: mrapp@hmc.psu.edu 531-8136 Course Coordinator: Ms. Pat Donnelly: pdonnelly@hmc.psu.edu

LOCATION: Hershey and Lehigh (Dr. Edward Norris)

MAXIMUM NUMBER OF STUDENTS: 1 (HY) and 1 (Lehigh)

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year Psychiatry clerkship.

REPORT TO: For Hershey-Dr Rapp

TIME AND LOCATION: 8:30 a.m.; Room C5600

DESCRIPTION: This four week elective on the Psychiatry consultation/liaison service is designed to give the student experience in recognizing and treating emotional problems of patients on the medical and surgical services. The student will develop skills in interviewing and assessing patients with a broad range of psychopathology and skills in assessing the interrelationship of medical and psychiatric conditions. The student will also learn the basic principles of performing a therapeutic evaluation, of short-term psychotherapy, and the indications for prescribing psychotherapeutic agents. He or she will learn how to become an effective part of the medical team holistically caring for the patient.

This student experience is similar in many respects to that of a resident in Psychiatry. The student will evaluate medical/surgical patients where psychiatric consultation is requested. In this manner the student will gain experience in the diagnosis and management of patients with a wide variety of psychosomatic disorders and emotional reactions to physical illness. During this elective experience the student is closely supervised by the consultation/liaison psychiatrist and will participate in twice-weekly psychosomatic/consultation conference.

This elective is designed for students interested in primary care, the medical or surgical specialties, or Psychiatry. It is for those who want to develop skills in diagnosing and treating the psychiatric aspects of medical illness and who desire a better understanding of the biopsychosocial aspects of medicine. An attending psychiatrist supervises each student's work. One student may be accepted per four week period for this elective.

<u>PSCHT 783 - Research in Physiology and Pathology of Sleep</u>

PREREQUISITE: First two years of medical school

PSCHT 783 - Research in Physiology and Pathology of Sleep Elective - 5 credits

COURSE DIRECTOR: Dr. Edward Bixler: ebixler@hmc.psu.edu 531-5556

Course Coordinator: Ms. Carrie Criley: ccriley@hmc.psu.edu

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 1

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: First two years of medical school.

REPORT TO: Carrie Criley

TIME AND LOCATION: 9:00 a.m.; Room C5617

DESCRIPTION: This elective is designed to enable the student to gain direct research experience by participating in an ongoing research program. The specific project the student will be involved with will include the general area of the physiology and pathology of sleep. Studies are carried out in both normal and sleep-disordered patients and focus on the evaluation, diagnosis, and treatment of sleep disorders. Patients studied may have any of the following disorders; insomnia, sleep apnea, narcolepsy/cataplexy, sleep walking, night terrors, and nightmares. The student develops skills in critically reviewing the relevant literature and in designing a specific research project. The student also learns how to record and quantify sleep in human

subjects. Specifically, the student learns how to prepare subjects for all-night recordings as well as how to monitor the recordings. The student gains direct experience in data collection, data reduction, and data analysis as it relates to the sleep laboratory environment. Finally, the student gains experience in writing up the results of his/her research experience in a publishable form.

The student works under the direct supervision of the faculty member responsible for the research project. In addition, the student receives individualized supervision from the Director of Psychiatric Research in identifying and understanding the broader principles that can be derived from the specific research experience. This project is designed for students interested in doing applied research in the sleep laboratory as well as for students who have an interest in psychiatry as a career choice.

PSCHT 796 - Individual Studies

PREREQUISITE: First two years of medical school

PSCHT 796 - Psychiatry Individual Studies Elective - 5 credits

COURSE DIRECTOR: Dr. Edward Bixler: ebixler@hmc.psu.edu 531-5556

Course Coordinator: Ms. Carrie Criley: ccriley@hmc.psu.edu

LOCATION: N/A

MAXIMUM NUMBER OF STUDENTS: 2

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 month

PREREQUISITE: First two years of medical school.

DESCRIPTION: This four or eight week elective is designed to enable the student to gain an understanding of the basic principles and techniques relevant to conducting clinical research in the psychiatric setting. The ongoing research projects include the following areas: Sexual Dysfunctions, Sleep Disorders, Behavioral Problems (including eating disorders and chronic pain), and research areas in Child Psychiatry as well as the clinical and laboratory evaluation on Drug Efficacy and Side Effects. The student will develop skills in critically reviewing the relevant literature and designing a specific research project. Experience will be gained in the general methodology of clinical research including data collection, data organization and reduction, data analysis, and in the interpretation of the analyzed data. Finally, the student will gain experience in writing up the results of his/her research experience in a publishable form. The student will gain this research experience through individualized supervision while participating in ongoing research projects in the Department of Psychiatry. The individualized supervision will come from the faculty member who is directly responsible for the research project with which the student is involved. In addition, the student will receive individualized supervision from the Director of Psychiatry Research in identifying and understanding the broader principles which can be derived from the specific research experience. This elective is designed both for students interested in doing clinical research in Psychiatry and for students who have an interest in Psychiatry as a career choice.

<u>RAD 700 - Pediatric Radiology Elective</u> PREREQUISITE: Third year core clerkships

RAD 700 - Pediatric Radiology Elective - 5 credits

COURSE DIRECTOR: Dr. Danielle Boal: dboal@hmc.psu.edu 531-6068

Course Coordinator: Ms. Pat Shirk: pshirk@hmc.psu.edu

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 2

WHEN OFFERED: All Rotations LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkships.

REPORT TO: Pat Shirk

TIME AND LOCATION: 8:00 a.m.; Room HG300

DESCRIPTION: Tutorial course emphasizing interpretation, clinical correlation, indications, and limitations of imaging studies used in the evaluation of infants and

children.

RAD 771 - General Radiology Elective

PREREQUISITE: Completion of first two years of medical school

RAD 771 - General Radiology Elective - 5 credits

COURSE DIRECTOR: Dr. Janet Neutze: jneutze@hmc.psu.edu 531-5599

Course Coordinator: Dr. Neutze

LOCATION: Hershey, Lehigh (Dr. Robert Kricun) and York (Dr. Brian Pollack)

MAXIMUM NUMBER OF STUDENTS: 7 (HY), 1 (Lehigh), and 1 (York)

WHEN OFFERED: All Rotations except July and August

LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Completion of first two years of medical school.

FOR HERSHEY REPORT TO: Dr. Janet Neutze

TIME AND LOCATION: 8:00 a.m.; Radiology Library, Room HG300L

DESCRIPTION: The elective exposes the student to all modalities currently used in diagnostic imaging and encourages learning by interaction with residents and faculty in an informal setting. A major objective of the elective is the understanding of the indications and contraindications for radiological studies and procedures as well as the cost-effective radiological work-up of various clinical conditions. Another major aim of the course is to teach issues of relevance for patient preparation for radiologic studies and procedures. For these reasons, the elective is of potential major benefit for any student, whatever his or her ultimate career objective may be.

RAD 772 - Radiology Acting Internship

PREREQUISITE: Radiology course 771 and all third year core clerkships

RAD 772 - Radiology Acting Internship - 5 credits

COURSE DIRECTOR: Dr. Janet Neutze: jneutze@hmc.psu.edu 531-5599

Course Coordinator: Dr. Neutze

LOCATION: Hershev

MAXIMUM NUMBER OF STUDENTS: 2 WHEN OFFERED: July through April **LENGTH OF ELECTIVE:** 1 Month

PREREQUISITE: Radiology course 771 and all third year core clerkships.

REPORT TO: Dr. Janet Neutze

TIME AND LOCATION: 8:00 a.m., Radiology Library, Room HG300L

DESCRIPTION: This acting internship is designed for students considering a career in radiology. During the four weeks, the student receives in depth education and experience in the interpretation of radiologic studies. The major area of focus is the assessment of chest and skeletal radiographs with additional areas of study customized to individual student interests and objectives. The internship provides similar experience to that of a beginning first year radiology resident. A mild evening call responsibility for the student further adds to the diversity of the educational experience. This course is useful to prepare students for future radiology residencies through a "hands on" approach.

RAD 796 - Individual Studies

PREREQUISITE: Permission of the preceptor. Limited to students enrolled in the Penn State College of Medicine

RAD 796 - Radiology Individual Studies Elective - 5 credits

COURSE DIRECTOR: Faculty Research Advisor

LOCATION: N/A

MAXIMUM NUMBER OF STUDENTS: N/A

WHEN OFFERED: All Rotations **LENGTH OF ELECTIVE:** 1 Month

PREREQUISITE: Permission of the preceptor. Limited to students enrolled in The

Pennsylvania State University College of Medicine.

DESCRIPTION: Creative projects including non-thesis research, supervised on an

individual basis and which fall outside the scope of formal courses.

RAD 797 - Radiology Special Topics Elective - 5 credits

COURSE DIRECTOR: Individual faculty advisor

MAXIMUM NUMBER OF STUDENTS: Varies - Individual arrangements with faculty

advisor.

WHEN OFFERED: All Rotations

PREREQUISITE: Third year core clerkships.

DESCRIPTION: Advanced clinical training in radiology or a radiology subspecialty, in

which no course number already exists.

RAD 797 - Special Topics

PREREQUISITE: Permission of Penn State College of Medicine Radiology Department.. Limited to students enrolled in the Penn State College of Medicine

RAD 797 - Radiology Special Topics Elective - 5 credits

COURSE DIRECTOR: Individual Radiology faculty advisor

MAXIMUM NUMBER OF STUDENTS: Varies - Individual arrangements with Radiology

faculty advisor.

WHEN OFFERED: All Rotations

PREREQUISITE: Third year core clerkships.

DESCRIPTION: Advanced clinical training in radiology or a radiology subspecialty, in

which no course number already exists.

SURG 796 - Individual Studies Elective

PREREQUISITE: Restricted to students enrolled in The Pennsylvania State University College of Medicine by special arrangement with the Department of Surgery faculty.

SURG 796 - Individual Studies Elective - 5 credits

COURSE DIRECTOR: Department of Surgery faculty member serving as preceptor.

Course Coordinator: Nancy White, nwhite@hmc.psu.edu

LOCATION: N/A

MAXIMUM NUMBER OF STUDENTS: N/A

WHEN OFFERED: All Rotations

LENGTH OF ELECTIVE: Two to Four Weeks

PREREQUISITE: Restricted to students enrolled in The Pennsylvania State University College of Medicine by special arrangement with the Department of Surgery faculty.

TIME AND LOCATION: N/A

DESCRIPTION: Clinical or laboratory research on a selected topic by special arrangement with and/or approval by a Department of Surgery faculty member serving as preceptor.

Course Objectives: Varies with selected topic.

Course Specific Requirements: Varies with selected topic.

SURG 797 - Surgical Special Topics Elective

SURG 797 - Surgical Special Topics Elective - 5 credits

COURSE DIRECTOR: Department of Surgery Course Director for the specific surgical

course.

Course Coordinator: Nancy White, nwhite@hmc.psu.edu

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: Varies

WHEN OFFERED: All Rotations

LENGTH OF ELECTIVE: Four Weeks

TIME: N/A

LOCATION:variable

DESCRIPTION: Advanced clinical training in surgery or surgical sub-specialty by arrangement with and/or approval by a Department of Surgery faculty member serving as preceptor.

Course Objectives: Varies with selected surgical