

Acting Internships (Medicine and Surgical)

All acting internships require successful completion of the third year core clerkships as a prerequisite. During the fourth year, a student is required to complete a Medicine Acting Internship, and a Surgical Acting Internship.

Acting internships must be completed at the Penn State Milton S. Hershey Medical Center or at one of our academic affiliate institutions (York Hospital, Pinnacle Health System, Reading Hospital, or Lebanon VA Medical Center.)

Medicine Acting Internships

EMED 752 - Emergency Medicine Acting Internship

COURSE DIRECTOR: Dr. Colby Shirk

Course Coordinator: Ms. Kathy Wellman kwellman@hmc.psu.edu (717) 531-1443

LOCATION: Hershey and York (Dr. David Vega)

MAXIMUM NUMBER OF STUDENTS: Varies (HY), 2 (York)

WHEN OFFERED: All Rotations (HY and York)

LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkships.

TIME AND LOCATION: 7:00 a.m., Emergency Department

DESCRIPTION: This elective/acting internship in emergency medicine provides the student with experience in the diagnosis and management of acute medical and surgical problems. The educational experience occurs in the Emergency Department and supervision is provided by faculty and residents. Students are assigned patients and their evaluations and recommendations reviewed by supervisory personnel. The student is made an integral part of the Emergency Department team. In that context, students participate in teaching conferences, patient care, and quality assurance activities. The instructional objective of this course is to provide the student with a clinical setting which provides a basic broad experience in the various aspects of emergency medical services and the initial approach to the management of acute medical and surgical problems.

This is designed for 4th year students and requires completion of all core rotations. This rotation is open to both Penn State and visiting medical students. This is a 4 week course involving day, evening, and night shifts. Students will care for a variety of patients under the supervision of faculty and senior residents. Students will attend weekly conferences as well as a weekly student case conference.

FCMED 722 - Family and Community Medicine Acting Internship

COURSE DIRECTOR: Dr. Shanin Gross

Course Coordinator: Jeanne Laicha, jlacha@hmc.psu.edu (717) 531-8752

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 who have completed their third year core clerkships.

DESCRIPTION: Opportunity to assume the responsibility of a 1st year resident with either an inpatient or outpatient focus. Continue to develop diagnostic skills on either an inpatient or outpatient population and continue to develop differential diagnoses and treatment plans while mastering patient communication skills.

STUDENTS MUST CONTACT THE FAMILY AND COMMUNITY MEDICINE OFFICE OF PREDOCTORAL EDUCATION FOR APPROVAL BEFORE REGISTERING FOR THIS ACTING INTERNSHIP.

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MED 722 - Medicine Acting Internship

COURSE DIRECTOR: Dr. Susan Glod

Course Coordinator: Dawn Strohecker, dstrohecker@hmc.psu.edu (717) 531-0003 x280227

LOCATION: Hershey, and Lebanon VA , Pinnacle Health

MAXIMUM NUMBER OF STUDENTS: 3 (HY), 2 (Lebanon VA), 2 (Pinnacle)

WHEN OFFERED: All Rotations **LENGTH OF**

ELECTIVE: 1 Month **PREREQUISITE:** Third Year

Medicine Clerkship. **ADMINISTRATIVE**

CONTACT: Dawn Strohecker

TIME AND LOCATION: Information will be sent to students 1-2 weeks prior to rotation.

DESCRIPTION: A four-week rotation designed to build upon previous clinical experiences in the basic medicine clerkship and provide students with a broad exposure to internal medicine at an advanced practice level.

Course Objectives:

A four-week rotation designed to build upon previous clinical experiences in the basic medicine clerkship and provide students with a broad exposure to internal medicine at an advanced practice level.

Course Objectives:

- 1) To continue development and refinement of basic clinical skills.
- 2) To expand the fund of knowledge of clinical disease and underlying physiology and pathophysiology.
- 3) To advance recognition of the clinical manifestations of different disease states and expansion of ability to generate broad differential diagnoses based on clinical findings.
- 4) To expand the ability to design and pursue diagnostic approaches to evaluate clinical problems.
- 5) To permit the development of evidence-based treatment plans for patients, follow the course of disease and observe how this may be modified by therapy.
- 6) To further the development of interpersonal skills and appreciation for the patient as an individual, and to expand professional ability to function as a physician.
- 7) To foster a firm understanding of the practical aspects of patient management.

MED 733 - Cardiology Acting Internship

COURSE DIRECTOR: Dr. Edward Lankford

Course Coordinator: Ms. Nakomis Maher nmaher@hmc.psu.edu (717) 531-0003 x287593

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 2 (HY)

WHEN OFFERED: All Rotations **LENGTH OF**

ELECTIVE: 1 Month **PREREQUISITE:** Third Year Core Clerkships.

ADMINISTRATIVE CONTACT: Ms. Nakomis Maher nmaher@hmc.psu.edu

TIME AND LOCATION: TBA

DESCRIPTION: Fourth year students obtain advanced training in the diagnosis and management of patients with cardiac disease by functioning as an acting intern on one of the two cardiology teams. Both teams admit to the MICU, intermediate care, and general patient floors and both admit patients with acute myocardial infarction. The White Team has a heavier emphasis on heart failure and electrophysiology, the Blue Team on ischemic heart disease. Attempt will be made to honor student requests for placement on White or Blue Team dependent on number of students assigned per rotation.

Course Objectives: To allow students to further their skills in the diagnosis and treatment of cardiac patients.

Course Specific Requirements: Students are expected to participate fully the diagnosis and management of cardiology inpatients. Attendance at cardiology conferences and presentations if applicable.

MED 749 - ICU/CCU Acting Internship

COURSE DIRECTOR: Dr. Margaret Wojnar mwojnar@hmc.psu.edu
Course Coordinator:

LOCATION: Hershey, and Harrisburg

MAXIMUM NUMBER OF STUDENTS: 1 (HY), 1 (Harrisburg)

WHEN OFFERED: All Rotations **LENGTH OF**

ELECTIVE: 1 Month **PREREQUISITE:** Third

Year Core Clerkships. **ADMINISTRATIVE**

CONTACT:

TIME AND LOCATION: TBA

DESCRIPTION: Senior students assume Acting Intern responsibilities on this combined Critical Care - Coronary Care rotation. This intense training is recommended for highly motivated students interested in a "hands-on" experience in the critical care unit.

Course Objectives: Main topics and concepts covered during this elective are: airway management, ventilators, hemodynamic monitoring, pharmacologic agents in the MICU, developing skill and comfort with the "acute" patient, developing comfort with end-of-life issues.

MED 757 - Hematology/Oncology Acting Internship

COURSE DIRECTORS: Drs. Michael Evans & Nelson Yee

Course Coordinator: Ms. Lynn Kreider lkreider@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:**

TBA

TIME AND LOCATION: TBA

DESCRIPTION: Students will function as acting interns in the inpatient hematology/oncology unit under the direction of senior residents, fellows, and faculty. Students, in addition to caring for patients with hematologic and oncologic malignancies, will be introduced to bone marrow transplantation as a treatment modality.

Course Objective: To provide students interested in the care and treatment of hematology/oncology patients further insight into this specialty.

Course Requirements: Direct patient care and management. Attendance at conferences and presentations as required.

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PED 710 – Pediatric Hematology/Oncology Acting Internship

PROGRAM DIRECTOR: Dr. Andrew Freiberg

Coordinator:

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 1

WHEN OFFERED: All Rotations

LENGTH OF ELECTIVE: 4 weeks

PREREQUISITE: Satisfactory completion of third-year core clerkships

REPORT TO: Hem/Onc Attending – Call Anne English at x6012

TIME AND LOCATION: 7:30 a.m.; C7830

Only one student can be accommodated per rotation. The course is managed by Dr. Andrew Freiberg, who is responsible for the overall schedule for the student and the individual project.

- The student will follow several inpatients

Students will present patients at daily rounds.

Student will enter CPOE orders to be cosigned by resident or attending

Student will prepare discharge instructions and discharge summary
At least one weekend per month seeing patients and writing daily notes.
• Pediatric Hematology/Oncology clinic (UPC 1100)

Wednesday after rounds

Friday after rounds - specialty clinics (consult clinic, sickle cell clinic, coag clinic, neuro-onc clinic)

• Attend Division academic conferences (C7602)

“Attending rounds” (H7306) Tuesdays 4:00 pm

Peds H/O research conference (C7602) Friday 12:00 noon

Peds tumor board (C7602) 1st and 3rd Friday 1:00 pm

Individual Project

The student is encouraged to research a topic of interest to Pediatric Hematology or Oncology during the month. The topic of choice should be discussed early in the rotation with the attending. During the third or fourth week or after the rotation, the topic should be presented as a short talk for the residents, and/or as a short paper.

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PED 727 - Neonatology Acting Internship

PROGRAM DIRECTOR: Dr. Timothy W. Palmer

Coordinator:

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 1

WHEN OFFERED: All Rotations **LENGTH**

OF ELECTIVE: 1 Month **PREREQUISITE:**

Third year core clerkships

REPORT TO: Green Team Fellow or senior resident; phone no.: 717-513-8412

TIME AND LOCATION: 7:00-7:30 a.m.; NICU (H7164)

Description: During this clinical acting internship, students will be responsible for the day-to-day management of patients in the Neonatal Intensive Care Unit (NICU). This rotation may be most helpful for those interested in Pediatrics or Obstetrics. The goal of the rotation is to provide education in the care and management of patients in the NICU including: organizational skills required for this acute care setting, daily exam and management of assigned patients including presentation on rounds, care plan management, and documentation. The student will have the opportunity to become skilled in procedures such as

neonatal resuscitation, umbilical line placement, phlebotomy, and intravenous access as well as other procedures that arise in the daily activities of the unit. The student will also learn process of lab result evaluation, neonatal resuscitation, respiratory support, and ventilation, fluid and electrolyte management, and nutrition management in the NICU patient population. The student will be expected to participate in on-call activities every fourth evening with the senior pediatric resident, neonatal fellow, or neonatal nurse practitioner. The focus of patient care will be on those diseases commonly associated with prematurity, congenital syndromes, cardiac anomalies, surgical issues, and infections. The student is also expected to complete three written, clinical questions each week of the rotation. The student will also be actively involved with teaching rounds, radiology conferences, and multidisciplinary discharge planning.

A copy of the curriculum and list of responsibilities of the Neonatal Acting Intern is available via email from the director.

PED 770 – Pediatric Critical Care Medicine Acting Internship

PROGRAM DIRECTOR: Dr. Steven Lucking

Coordinator:

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 1 (2 during October - April)

WHEN OFFERED: All Rotations **LENGTH**

OF ELECTIVE: 1 Month **PREREQUISITE:**

Third year core clerkships

TIME AND LOCATION: 8:00 a.m.; Pediatric Intensive Care Unit

DESCRIPTION: An elective designed to give the students experience with the specialty of Pediatric Critical Care Medicine. Students will learn the principles of evaluation and management of the child with serious pulmonary insufficiency. This experience will include airway management and ventilator support of children with respiratory failure. Students will also learn the multidisciplinary support of critically ill children with traumatic injury including severe traumatic brain injury, central nervous system infections, toxicological emergencies, cardiovascular instability and multi-system organ failure. Students will function as the primary house officer for one or more patients and are expected to present their patients during morning and afternoon rounds, participate in night call on an average of one night in four and will have the opportunity to perform invasive procedures under the supervision of the Pediatric Critical Care staff.

PED 780 - Pediatric Acting Internship

PROGRAM DIRECTOR: Dr. Laura Murphy

Coordinator:

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 1 (HY) at Hershey

WHEN OFFERED: All Rotations **LENGTH**

OF ELECTIVE: 1 Month **PREREQUISITE:**

Third year core clerkships

REPORT TO: *Hershey* - Senior Resident Pediatrics;

TIME AND LOCATION: *HY* - 7:00 a.m., 7th Floor IMC;

DESCRIPTION: The AI experience is an opportunity for interested students to serve as an intern on a team caring for pediatric patients. It is expected that the AI will build on skills learned in the 3rd year and show increased independence and decision making in managing patients. Students will carry patients as an intern and directly report to the senior resident or faculty member. They will carry an average of 3-4 pts, be responsible for notes, labs, and presentations daily and serve as an integral member of the team. In both locations, independence, medical decision making, differential diagnoses, physical exam skills and oral presentations will be emphasized. Call will be as part of the team--every 4th night and weekend days with the team.

PSCHT 771 - Adult Psychiatry Inpatient Acting Internship

COURSE DIRECTOR: Aditya Joshi, MD eaksu@hmc.psu.edu

Course Coordinator: Ashley Miller amiller28@hmc.psu.edu (717) 531-1016

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 1

WHEN OFFERED: All Rotations

PREREQUISITE: Third year core clerkships.

FOR HERSHEY REPORT TO: Aditya Joshi, MD

TIME AND LOCATION: 8:30 a.m.; Second Floor Adult Psychiatry Nurses Station

DESCRIPTION: This four week elective on the adult psychiatry inpatient unit is designed to enable the student experience working intensively with, and having primary responsibility for, a core load of adult psychiatric inpatients. The student experience is similar in many respects to that of a resident in Psychiatry. During this elective experience the student is closely supervised by an attending psychiatrist. The student becomes the primary physician for inpatients who may have any of the broad spectrum of psychiatric disorders including Mood Disorders, Anxiety Disorders, Schizophrenia, Eating Disorders, Somatoform Disorders, and Substance Use Disorders. Students will develop skills in

interviewing patients, making diagnostic assessments, and developing and implementing treatment plans. This elective is designed for students going into Psychiatry as a career choice, but will also benefit any student whose future plans include frequent assessment and treatment of psychiatric patients, as will occur in primary care and emergency room settings.

PSCHT 773 - Child Psychiatry Inpatient Acting Internship
COURSE DIRECTOR:

Course Coordinator: Ashley Miller amiller28@hmc.psu.edu (717) 531-1016

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 1 (HY)

WHEN OFFERED: All Rotations **LENGTH**

OF ELECTIVE: 1 Month **PREREQUISITE:**

Third year core clerkships. **REPORT TO:**

TIME AND LOCATION: TBA

DESCRIPTION: This four week elective on the child psychiatry inpatient unit is designed to enable students to enhance their understanding of child development, the differential diagnosis of psychiatric disorders, and treatment techniques employed with mentally ill children three to 13 years of age. The student experience is similar in many respects to that of a resident in child psychiatry. The student will follow two or three carefully selected child inpatients who may have one of the broad spectrum of childhood psychiatric disorders requiring hospitalization. During this elective experience the student is closely supervised by the attending child psychiatrist. The student will learn the basic principles of child psychotherapy, play therapy, milieu therapy, family therapy, parent education, and psychopharmacotherapy in children. Students will also develop their skills in interviewing children, making diagnostic assessments, and developing and implementing treatment plans with children. This will include understanding how to set up a behavior modification program for the child while on the unit and how to teach the parents to follow through with behavioral strategies at home after discharged.

Students with career interests in pediatrics or family practice will find this elective particularly helpful, in that it will provide the last opportunity for formal psychiatric training in areas of child behavior management, parent training, and in the early identification, treatment and referral of children with emotional and behavioral problems. One student may be accepted for this four week elective.

Surgical Acting Internships

ANSTH 740 – Anesthesia Acting Internship

COURSE DIRECTOR: Dr. Venugopal Reddy

COURSE COORDINATOR: Ms. Jody Artz jartz@hmc.psu.edu (717) 531-8434

MAXIMUM NUMBER OF STUDENTS: 2

WHEN OFFERED: All Rotations **LENGTH OF**

ELECTIVE: One Month **PREREQUISITES:**

Third year core clerkships. **REPORT TO:**

SICU Fellow or Attending

DESCRIPTION: The Anesthesia acting internship (AI) is designed to provide the student with an opportunity to participate in the postoperative management of surgical patients from various specialties who have undergone complex surgical procedures. During this rotation, emphasis is placed on the areas of pulmonary, cardiovascular, gastrointestinal, nutrition and infection. The student would learn how to use mechanical ventilators, vasopressors, inotropic drugs, fluid management, as well as learn the role of renal replacement therapy, and prophylaxis for deep vein thrombosis etc. You may also get the chance to learn how to intubate in real patients.

Your average day would run from 6AM to 5PM. You will be expected to take several weekend day shift calls. Your responsibilities would include examining the patient, reviewing the investigations, drugs, and the intake and output charts. With this background you would present your case to the attending during rounds and suggest a plan of action. You are also required to help the residents in terms of updating the daily progress notes, discharge planning in power chart and rounds. You are expected to participate in bed side case discussion. If time permits, you should also attend anesthesia lectures and simulation sessions with the anesthesia residents.

EMED 752 - Emergency Medicine Acting Internship

COURSE DIRECTOR: Dr. Colby Shirk

Course Coordinator: Ms. Kathy Wellman kwellman@hmc.psu.edu (717) 531- 6039

LOCATION: Hershey, York (Dr. David Vega)

MAXIMUM NUMBER OF STUDENTS: Varies (HY), 2 (York)

WHEN OFFERED: All Rotations (HY and York) For the YORK location: only 4th year students who are interested in Emergency Medicine as a career may sign

up for rotations during the months of August through December. January through July available at York for all students.

LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkships.

TIME AND LOCATION: 7:00 a.m., Emergency Department

DESCRIPTION: This elective/acting internship in emergency medicine provides the student with experience in the diagnosis and management of acute medical and surgical problems. The educational experience occurs in the Emergency Department and supervision is provided by faculty and residents. Students are assigned patients and their evaluations and recommendations reviewed by supervisory personnel. The student is made an integral part of the Emergency Department team. In that context, students participate in teaching conferences, patient care, and quality assurance activities. The instructional objective of this course is to provide the student with a clinical setting which provides a basic broad experience in the various aspects of emergency medical services and the initial approach to the management of acute medical and surgical problems.

NSURG 750 - Neurosurgery Acting Internship

COURSE DIRECTOR: Dr. Robert Harbaugh

Course Coordinator: Ms. Lynne Hamann lhamann1@hmc.psu.edu (717) 531-1279

LOCATION: Hershey

NUMBER OF STUDENTS: 2 (HY)

WHEN OFFERED: All Rotations

LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkships.

FOR HERSHEY REPORT TO: Chief Resident

TIME AND LOCATION: TBA

DESCRIPTION: Extensive experience in neurosurgery and related clinical neurosciences.

1. To solidify the basic knowledge of surgical diseases and trauma acquired during the third year clerkship. This involves the evaluation of patients in the Emergency Department, the Surgical Intensive Care unit and on the wards.
2. To expand the fund of knowledge acquired during the third year clerkship, including pathophysiology, anatomy, and surgical principles.
3. To expand the recognition of clinical presentations of a variety of surgical diseases and develop a broad differential diagnosis.

4. To critically design an appropriate diagnostic plan to rule in or rule out diseases in the differential diagnosis.
5. To know the medical and surgical options to treat surgical diseases and trauma.
6. To understand the principles of evidence based therapeutic options for patients with surgical diseases and trauma patients.
7. To assume the care of several patients with a variety of surgical diseases, to observe the course of the disease and how it is modified by medical or surgical intervention.
8. To assume the total care, as appropriate, of patients initially seen in the clinic or Emergency Department and admitted to the hospital: attending to their needs, developing rapport with them, being with them in the operating room and participating in their disposition at discharge.
9. To further develop interpersonal skills with patients, students, residents, and faculty.
10. To understand the financial aspects and ramifications of surgical intervention and the concept of "best practice".

OBGYN 701 - Obstetrics and Gynecology Acting Internship

COURSE DIRECTOR: Dr. Colin MacNeill

Course Coordinator: Ms. Torie Roe troe@hmc.psu.edu (717) 531-0003 x283519

LOCATIONS: Harrisburg(Pinnacle), Reading, York and Lancaster

MAXIMUM NUMBER OF STUDENTS: 1 (Harrisburg), 1 (Lancaster), 1 (Reading), 1 (York)

WHEN OFFERED: All rotations **LENGTH OF ELECTIVE:** 1 Month **PREREQUISITE:** Third year core clerkships.

DESCRIPTION: These courses are designed to expose the advanced student to obstetrics and gynecology in a community hospital setting. The student will be responsible in obstetrics for the management of antepartum and postpartum cases of both routine and high risk pregnancies. The student will participate actively with a resident and assume responsibility commensurate with an advanced elective course. The physiology of labor and delivery will be stressed. The gynecology component will include the full time activities of an active community hospital gynecologist. This will include experience in the office, in the

outpatient setting of the hospital, the inpatient setting, and operating room. There is a possibility for individualized course directives to meet student interests to include such topics as general gynecology, urogynecology, and gynecologic oncology. This interest should be discussed with the program director at each individual location.

OBGYN 710 - Clinical Gynecology Oncology Acting Internship

COURSE DIRECTOR: Dr. James Fanning

Course Coordinator: Ms. Torie Roe troe@hmc.psu.edu (717) 531-0003 x283519

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 2 (HY)

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

Third year core clerkships. **REPORT TO:**

TIME AND LOCATION: TBA

DESCRIPTION: This elective will involve active participation in outpatient and inpatient evaluations of patients with gynecologic malignancies. This includes experience with both the surgical and medical management of common gynecologic malignancies. This course qualifies as a surgical sub-internship. The student will participate actively along with the residents and assume responsibilities commensurate with an advanced elective course. Pathophysiology of common gynecologic malignancies and their treatment will be stressed.

ORTHO 730 - Adult Orthopaedic Acting Internship

COURSE DIRECTOR: Dr. Edward Fox

Course Coordinator: Ms. Tammie Grimm (717) 531-5638 tgrimm@hmc.psu.edu

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 4 (HY)

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

Third year core clerkships. **REPORT TO:**

Orthopaedic Chief Resident **TIME AND**

LOCATION: TBA

DESCRIPTION: The acting internship is offered to give students an in-depth experience in orthopaedics. During the one month, the student will spend two weeks on each of two primary orthopaedic services: adult reconstruction, pediatric orthopaedics, sports medicine, spine, or trauma. The student may choose which two services on which to participate. During the two weeks, the student will have the opportunity to participate in patient care in the clinic, operating room, and the in-patient services. Student responsibility is that of a junior house officer with appropriate supervision. The student will be responsible to round with his/her team and to attend daily orthopaedic teaching conferences with the housestaff.

ORTHO 731 - Pediatric Orthopaedic Surgery Acting Internship

COURSE DIRECTOR: Dr. William Hennrikus

Course Coordinator: Ms. Tammie Grimm (717) 531-5638 tgrimm@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:**

Orthopaedic Chief Resident **TIME AND**

LOCATION: TBA

DESCRIPTION: This acting internship offers a broad exposure to the entire spectrum of pediatric orthopaedics with outpatient clinics in General Pediatric Orthopaedics, Spina Bifida, Cerebral Palsy, Scoliosis, Muscular Dystrophy, and Limb Deficiency and Limb Length Discrepancy. The student functions as a junior house officer under faculty supervision. The student is encouraged to tailor the elective to his or her specific interests. Those interested in a surgical career will wish more operating room exposure. Those seeking residencies in pediatrics or family medicine may wish to concentrate on the outpatient clinics.

SURG 710 - General Surgery Acting Internship

COURSE DIRECTOR: Dr. Brian Saunders

Course Coordinator: Ms. Lureye Myers lmyers1@hmc.psu.edu (717) 531-4451

LOCATION(S): Hershey, York (Dr. Ebondo Mpinga)

SPECIFY EMPHASIS: General Surgery/Oncological Surgery or Trauma/Critical Care

MAXIMUM NUMBER OF STUDENTS: 2 (HY), and 1 (York-Prior Approval)

WHEN OFFERED: All Rotations **LENGTH**

OF ELECTIVE: 1 Month **PREREQUISITE:**

Third year core clerkships. **REPORT TO:**

TBA

TIME AND LOCATION: TBA

DESCRIPTION: This course is designed to reinforce and expand the principles of General Surgery in the inpatient, outpatient, trauma bay and operating room settings. The 4th year medical student is expected to assume a much greater role in the care and assessment of patients, than occurred during the 3rd year Clerkship. It is anticipated that the 4th year medical student will essentially function as an intern. Emphasis is placed on clinical problem solving in the clinics, on the wards, in the Emergency Department and in the Surgical Critical Care unit. Indications, contraindications, morbidity and mortality associated with various frequently performed operative procedures are to be known by the 4th year medical student by the completion of the rotation. The 4th year medical student is also expected to even more familiar with the pertinent anatomy and the principles of the various operative procedures on which he/she scrubs. Emphasis is also given to teaching the appropriate way to present a patient to colleagues comprehensively and in an articulate and logical way.

SURG 711 – Cardiothoracic Surgery Acting Internship

COURSE DIRECTOR: Dr. David Campbell

Course Coordinator: Ms. Becky Horn rhorn@hmc.psu.edu (717) 531-8329

LOCATION: Hershey, and York (Dr. Ebondo Mpinga)

MAXIMUM NUMBER OF STUDENTS: 1 (HY), and 1 (York Prior Approval)

WHEN OFFERED: All Rotations **LENGTH**

OF ELECTIVE: 1 Month **PREREQUISITE:**

Third year core clerkships.

REPORT TO: Chief Fellow For Hershey - call pager # 3211 for instructions

TIME AND LOCATION: TBA

DESCRIPTION: Participate in the preoperative work-up, intraoperative procedures, and postoperative care of patients undergoing a wide variety of cardiothoracic operations. Special duty assignments are also available.

SURG 713 - Vascular Surgery Acting Internship

COURSE DIRECTOR: Dr. Robert Atnip

Course Coordinator: Ms. Lureye Myers lmyers1@hmc.psu.edu (717) 531-4451

LOCATION: Hershey, and York (Dr. Ebondo Mpinga – Prior Approval)

MAXIMUM NUMBER OF STUDENTS: 1 (HY), and 1 (York-Prior Approval)

WHEN OFFERED: All Rotations

LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkships.

REPORT TO: TBA

TIME AND LOCATION: TBA.

DESCRIPTION: An acting internship designed to provide the student with an in depth appreciation of all facets of vascular surgery.

A clinical experience designed to be an acting internship for one in the fourth year. Emphasis will include outpatient work as well as operating room experience. Clinical rounds, patient consultations, and division conferences are also included. Microsurgery practice and research laboratory work are encouraged. Each Student will be helped to develop a manuscript for publication in a basic science or clinical journal.

SURG 714 - Transplant Surgery Acting Internship

COURSE DIRECTOR: Dr. Zakiyah Kadry

Course Coordinator: Ms. Lureye Myers lmyers1@hmc.psu.edu (717) 531-4451

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 1

WHEN OFFERED: All rotations

LENGTH OF ELECTIVE: 1 month

PREREQUISITE: Third

Year Core Clerkships

REPORT TO: TBA

TIME AND LOCATION: TBA

DESCRIPTION: An in-depth experience in the preoperative evaluation, intra-operative procedures, and postoperative management of kidney, liver, and pancreas transplant patients.

COURSE OBJECTIVES: This course is designed to offer students an opportunity to be involved with the evaluation and management of patients on the transplant surgery service. It is designed to reinforce the principles of General Surgery which are learned in the third-year but with particular emphasis to the care of transplant patients. The 4th year medical student is expected to function as an intern. The 4th year student is also expected to become more knowledgeable of the pertinent anatomy and physiology of the various transplant organs and participate in the operating room to a greater extent. Emphasis is also given to presentation skills and patient assessments. Finally, transplantation represents a field that combines many disciplines of medicine and allows a medical student to learn how to interact in this collaborative environment

SURG 720 - Plastic Surgery Acting Internship

COURSE DIRECTOR: Dr. John Ingraham

Course Coordinator: Ms. Tasha Cochran tcochran@hmc.psu.edu (717) 531-8372

LOCATION: Hershey, and York –Prior Approval (Dr. Ebondo Mpinga)

MAXIMUM NUMBER OF STUDENTS: 1 (HY), and 1 (York-Prior Approval)

WHEN OFFERED: All Rotations

LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkships.

REPORT TO: TBA

TIME AND LOCATION: TBA

DESCRIPTION: A clinical experience designed to be an acting internship for one in the fourth year. Emphasis will include outpatient work as well as operating room experience. Clinical rounds, patient consultations, and division conferences are also included. Microsurgery practice and research laboratory work are encouraged. Each Student will be helped to develop a manuscript for publication in a basic science or clinical journal.

SURG 722- Hand Surgery Acting Internship

COURSE DIRECTOR: Dr. Randy Hauck

Course Coordinator: Ms. Tasha Cochran tcochran@hmc.psu.edu (717) 531-8372

LOCATION: Hershey
NUMBER OF STUDENTS: 1
WHEN OFFERED: All Rotations **LENGTH OF ELECTIVE:** 1 Month **PREREQUISITE:** Third year core clerkships. **REPORT TO:** TBA
TIME AND LOCATION: TBA

DESCRIPTION: This acting internship is designed to give the students an opportunity to participate in the preoperative, operative, and postoperative care of patients with hand problems including congenital and acquired conditions that affect the hand and upper extremity.

SURG 740 - Urology Acting Internship

COURSE DIRECTOR: Dr. Ross Decter
Course Coordinator: Ms. Danielle Shreiner dshreiner@hmc.psu.edu (717) 531-1131

LOCATION: Hershey, and York (Dr. Ebondo Mpinga – Prior Approval)
MAXIMUM NUMBER OF STUDENTS: 1 (HY), and 1 (York-Prior Approval)
WHEN OFFERED: All Rotations
LENGTH OF ELECTIVE: 1 Month
PREREQUISITE: Third year core clerkships.
FOR HERSHEY REPORT TO: For Hershey-Dr. Ross Decter
TIME AND LOCATION: 6:45 a.m.; Urology Conference Room, Room C4832

DESCRIPTION: In-depth experience in evaluation and management of patients with adult and pediatric urologic problems. Specific concentration in pediatric urology, female urology, kidney and ureteral stones, oncology, or kidney stones is available. This fourth year acting internship is for the student who wishes a more intensive exposure to Urology. The time distribution is negotiable and a particular student interest in research or specific area of Urology can be accommodated.

SURG 741 Surgical Intensive Care Unit Elective

COURSE DIRECTOR: Dr. Scott Armen
Course Coordinator: Ms. Lureye Myers lmyers1@hmc.psu.edu (717) 531-4451
LOCATION: Hershey
MAXIMUM NUMBER OF STUDENTS: 2 (HY)
WHEN OFFERED: All Rotations
LENGTH OF ELECTIVE: 1 Month

PREREQUISITE: Third year core clerkships.
REPORT TO: For Hershey-ICU Attending
TIME AND LOCATION: TBA

DESCRIPTION: An Intensive Care Unit exposure to patients after surgery and trauma. Emphasis is placed on teaching the techniques of pulmonary, cardiovascular, neurological, nutritional, and pain management. Principles of physiology are emphasized, and students participate in decisions of management. Students will be evaluated by the SICU faculty based on their participation in rounds, knowledge of critical care medicine, contribution to looking up and sharing new knowledge required by the team, procedural skills, eagerness to learn, and involvement in social interactions with the family, etc. of their patients.

SURG 770 - Otolaryngology Acting Internship

COURSE DIRECTOR: Dr. Johnathan McGinn
Course Coordinator: Ms. Beth Shultz eshultz@hmc.psu.edu (717) 531-6718

LOCATION: Hershey and York-Prior Approval (Dr. Ebondo Mpinga)
MAXIMUM NUMBER OF STUDENTS: 2 (HY) and 1 (York-Prior Approval)
WHEN OFFERED: All Rotations
LENGTH OF ELECTIVE: 1 Month
PREREQUISITE: Third year core clerkships.
REPORT TO: For Hershey-Chief Resident
TIME AND LOCATION: TBA

DESCRIPTION: This course is designed to expand the fourth year students understanding of the evaluation and management of patients with ear, nose, throat and neck problems. Students on this AI will serve as an integral part of the Otolaryngology ? Head & Neck Surgery team. This rotation should serve to enhance the head and neck history and examination skills of the student. Student will be expected to personally evaluate patients in the clinic, as well as possibly through the emergency room and inpatient consultation service. Management of these patients will be discussed with resident and attending faculty in formulating a treatment plan. Operative experience will be directed mostly towards routine ear, nose, throat, and neck surgeries. More intense head and neck cases may be utilized as opportunities for head and neck anatomy experiences for all students. For those expressing an interest in otolaryngology ? head & neck surgery as a potential career, operative experience can be tailored for the exposure necessary to demonstrate the breadth of otolaryngology ? head & neck surgery. Daily conferences and lectures will serve as formal didactics, in addition to the teaching opportunities provided in outpatient clinics and inpatient rounds. The overriding purpose of this rotation is to enhance head and neck

skills and to reinforce for students the otolaryngologic pathology which they are likely to see in their clinical practice, regardless of specialty.

COURSE GOALS:

1. To solidify the basic knowledge of surgical diseases and trauma acquired during the third year clerkship. This involves the evaluation of patients in the Emergency Department, the Surgical Intensive Care unit, the outpatient office, and on the wards.
2. To expand the fund of knowledge acquired during the third year clerkship, including pathophysiology, anatomy, and surgical principles.
3. To expand the recognition of clinical presentations of a variety of surgical diseases and develop a broad differential diagnosis.
4. To critically design an appropriate diagnostic plan to rule in or rule out diseases in the differential diagnosis.
5. To know the medical and surgical options to treat surgical diseases and trauma.
6. To understand the principles of evidence based therapeutic options for patients with surgical diseases and trauma patients.
7. To assume the care of several patients with a variety of surgical diseases, to observe the course of the disease and how it is modified by medical or surgical intervention.
8. To assume the total care, as appropriate, of patients initially seen in the clinic or Emergency Department and admitted to the hospital: attending to their needs, developing rapport with them, being with them in the operating room and participating in their disposition at discharge.
9. To further develop interpersonal skills with patients, students, residents, and faculty.
10. To understand the financial aspects and ramifications of surgical intervention and the concept of "best practice".

COURSE OBJECTIVES

The student should be able to perform the following by the end of the four week rotation:

1. List the indications for adeno-tonsillectomy / tonsillectomy.

2. Discuss the pathogenesis of rhinosinusitis and rationale for surgical treatment.
3. Identify risk factors for head and neck malignancies.
4. Correctly interpret an audiogram, in regards to type(s) of hearing loss.
5. Perform a detailed head and neck examination.
6. Present a patient history and examination in detailed, but succinct manner.
7. Perform flexible fiberoptic laryngoscopy, with guidance of senior resident or attending staff.
8. Perform a surgical wound closure in layers, with guidance of senior resident or attending staff.
9. Demonstrate knowledge of the evaluation of airway obstruction.
10. Perform the initial evaluation of new consults in the ward and emergency room setting.
11. Identify the symptoms of parathyroid and thyroid disease and the role for surgery as treatment modality.

SURG 780 - Pediatric Surgery Acting Internship

COURSE DIRECTOR: Dr. Mary Catherine Santos,

Course Coordinator: Ms. Lureye Myers lmyers1@hmc.psu.edu (717) 531-4451

LOCATION: Hershey

MAXIMUM NUMBER OF STUDENTS: 1

WHEN OFFERED: All Rotations **LENGTH**

OF ELECTIVE: 1 Month **PREREQUISITE:**

Third year core clerkships. **REPORT TO:**

TBA

TIME AND LOCATION: TBA

DESCRIPTION: Further exposure to the surgical care of infants, children, and adolescents. Fourth year students are expected to accept primary care of their patients and to lead and teach the third year clerks. Go to surgery.psu.edu for educational objectives.

Course Objectives:

1. To solidify the basic knowledge of surgical diseases and trauma in the pediatric population acquired during the third year clerkship. This involves the evaluation of patients in the Emergency Department, PICU, NICU, Children's Hospital inpatient ward, clinic and OR.
2. To expand the fund of knowledge acquired during the third year clerkship, including pathophysiology, anatomy, and surgical principles.
3. To expand the recognition of clinical presentations of a variety pediatric of surgical diseases and independently develop an appropriate differential diagnosis.
4. To critically design an appropriate diagnostic plan to rule in or rule out diseases in the differential diagnosis.
5. To know the medical and surgical options to treat pediatric surgical diseases and pediatric trauma, including the recognition of patterns of child abuse.
6. To understand the principles of evidence based therapeutic options for pediatric patients with surgical diseases and trauma patients.
7. To assume the care of several patients with a variety of surgical diseases, to observe the course of the disease and how it is modified by medical or surgical intervention. The AI should be able to articulate this process for at least one of the patients followed through the course of the treatment.
8. To assume the total care, as appropriate, of patients initially seen in the clinic or Emergency Department and admitted to the hospital: attending to their needs, developing rapport with them, being with them in the operating room and participating in their disposition at discharge.
9. To further develop interpersonal skills with pediatric patients, parents or guardians, students, residents, other health professionals, and faculty.
10. To understand the financial aspects and ramifications of all interventions, diagnostic, medical or operative and the surgical services and the concept of "best practice".