

SENIOR *Course* CATALOG

CLASS *of* 2015



School of Medicine
& Health Sciences

THE GEORGE WASHINGTON UNIVERSITY

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Fourth Year Calendar 2014-2015

| | | |
|------------|----------------------------|-----------------------------------|
| Week 1 | Assumed Vacation | June 28 – July 6, 2014 |
| Week 2 | | 7 July – 13 July 2014 |
| Week 3 | | 14 July – 20 July 2014 |
| Week 4 | | 21 July – 27 July 2014 |
| Week 5 | | 28 July – 3 August 2014 |
| Week 6 | | 4 August – 10 August 2014 |
| Week 7 | | 11 August – 17 August 2014 |
| Week 8 | | 18 August – 24 August 2014 |
| Week 9 | | 25 August – 31 August 2014 |
| Week 10 | | 2 September – 7 September 2014 |
| Week 11 | | 8 September – 14 September 2014 |
| Week 12 | | 15 September – 21 September 2014 |
| Week 13 | | 22 September – 28 September 2014 |
| Week 14 | | 29 September – 5 October 2014 |
| Week 15 | | 6 October – 12 October 2014 |
| Week 16 | | 13 October – 19 October 2014 |
| Week 17 | | 20 October – 26 October 2014 |
| Week 18 | | 27 October – 2 November 2014 |
| Week 19 | | 3 November – 9 November 2014 |
| Week 20 | | 10 November – 16 November 2014 |
| Week 21 | | 17 November – 23 November 2013 |
| Week 22 | | 24 November – 30 November 2014 |
| Week 23 | | 1 December – 7 December 2014 |
| Week 24 | | 8 December – 14 December 2014 |
| Week 25 | | 15 December – 21 December 2014 |
| Week 26 | | 22 December – 28 December 2014 |
| Week 27 | | 29 December 2014 – 4 January 2015 |
| Week 28 | | 5 January – 11 January 2015 |
| Week 29 | | 12 January – 18 January 2015 |
| Week 30 | | 19 January – 25 January 2015 |
| Week 31 | | 26 January – 1 February 2015 |
| Week 32 | | 2 February – 8 February 2015 |
| Week 33 | | 9 February – 15 February 2015 |
| Week 34 | | 16 February – 22 February 2015 |
| Week 35 | | 23 February – 1 March 2015 |
| Week 36 | Required Senior POM Course | 2 March – 8 March 2015 |
| Week 37 | Required Senior POM Course | 9 March – 15 March 2015 |
| Week 38 | Required Senior POM Course | 16 March – 22 March 2015 |
| Week 39 | Required Senior POM Course | 23 March – 29 March 2015 |
| Week 40 | | 30 March – 5 April 2015 |
| Week 41 | | 6 April – 12 April 2015 |
| Week 42 | | 13 April – 19 April 2015 |
| Week 43 | | 20 April – 26 April 2015 |
| Week 44 | | 27 April – 3 May 2015 |
| Week 45 | | 4 May – 10 May 2015 |
| Graduation | | 17 May 2015 |

GW SMHS Graduation Requirements

Students must satisfactorily complete all six required third year clerkships plus the listed requirements before graduation. Any of the courses within each category will fulfill that requirement. (If a student spends four weeks in a course with a two week requirement, the requirement is fulfilled and credit is given for two weeks of free choice elective time.)

1. ACTING INTERNSHIP IN MEDICINE, PEDIATRICS OR SURGERY

(or in certain circumstances, in Family Practice)

- MED 332, 333, 334 4 weeks
- PED 360, 361, 362, 365, 366
- SURG 380, 382, 383, 400

2. ANESTHESIOLOGY

(do not repeat if taken in Surgery)

- ANES 302, 380 2 weeks

3. EMERGENCY MEDICINE

- EMED 302 or PED 405 4 weeks

4. CLINICAL NEUROSCIENCE

(do not repeat if taken in MSIII)

- NEUR 380 4 weeks

5. PRACTICE OF MEDICINE/POM IV

weeks 36-39

6. FREE CHOICE ELECTIVES

14 weeks (+)

(Add 2 weeks if Anesthesia was taken during Surgery. Subtract weeks of elective time completed during MSIII).

CORE CLERKSHIPS

If all or part of Primary Care, ObGyn, Pediatrics, or Psychiatry were deferred during Year III, the eight week rotation must be completed by week 35 of the senior year.

Dropping and Adding Courses

The senior year is a busy time with many unpredictable events and needs. Therefore, almost all of you will need to change your course schedule at some time during the year. On the other hand, faculty must have a need to know who to expect and when to expect you for clinical rotations, many of which take a great deal of effort to organize. In addition, many popular electives end up with long waiting lists.

Once the course schedules are set at the beginning of each semester and faculty have been notified of your expected arrival, you may not change your schedule without completing a "drop-add" form. You can check availability of a course by contacting the Dean's Office or Dean Haywood in the Dean's Office (202-994-2170). If the course you wish to take is available, you must have the form signed to drop the course you are currently registered for and then the add form must be signed by the faculty member whose course you wish to add before we will change your schedule.

FALL SEMESTER FACULTY NOTIFICATION - JUNE 13, 2014

SPRING SEMESTER FACULTY NOTIFICATION - DECEMBER 5, 2014

*******AFTER THESE DATES YOU MUST COMPLETE A DROP-ADD FORM TO CHANGE COURSES*******

If you attempt to drop a course at the last minute it will frequently upset the faculty and fellow students on the wait list who will be unable to change their plans to fill your vacated space. Therefore, you may only drop a course up until one month before the scheduled start date. If you wish to change your schedule on shorter notice than one month, you must have approval of Dr. Haywood as well as the relevant faculty members.

It is ultimately your responsibility to be sure that you meet all graduation requirements. Therefore, if you change courses, be sure that you meet the required number of weeks of elective course work as well as the required specialty course work.

School of Medicine & Health Sciences

THE GEORGE WASHINGTON UNIVERSITY

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smhs.gwu.edu/offices

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Fax: (202) 994-0926
website: smhs.gwu.edu

Third Year Clerkship Directors and Coordinators

| Dept | Director | Phone | Coordinator | Phone | RM/FL |
|-------------------------|--|----------|---|----------|-----------------|
| Surgery | Khashayar Vaziri, MD kvaziri@mfa.gwu.edu | 741-3365 | Jessica Ruiz jruiz@mfa.gwu.edu | 741-3157 | ACC 6B-402 |
| Medicine | Juan Reyes, MD, MPH jreyes@mfa.gwu.edu | 715-4231 | Dana Brent dbrent@mfa.gwu.edu | 741-2187 | ACC 2-105 |
| Primary Care | Robert Jablonover, MD rjablonover@mfa.gwu.edu | 741-2263 | Dana Brent dbrent@mfa.gwu.edu | 741-2187 | ACC 2-105 |
| Psychiatry | Julia Frank, MD jfrank@mfa.gwu.edu | 741-2865 | Shaira Morales smorales@mfa.gwu.edu | 741-2871 | ACC 9-405 |
| Pediatrics | Terry Kind, MD tkind@childrensnational.org | 476-5692 | Wilhelmina Bradford wbholmes@childrensnational.org | 476-5692 | CNHS 3.5W - 600 |
| Obstetrics & Gynecology | Charles Macri, MD cmacri@mfa.gwu.edu | 741-2510 | Nykhia Betts nbetts@mfa.gwu.edu | 741-2510 | ACC 6A-423 |

Email Addresses for faculty and staff at the GW School of Medicine and Health Sciences:

first initial + last name@mfa.gwu.edu

Email Addresses for Childrens (CNHS): **first initial + first seven letters of last name@childrensnational.org**

Mailing Address for Children's National Health System:

CNHS
Medical Education Office
Floor 3.5, Suite 600
111 Michigan Avenue, NW
Washington, DC 20010

Third Year Courses:

| | |
|----------|-----------------------------|
| MED 301 | Primary Care Clerkship |
| MED 305 | Internal Medicine Clerkship |
| OB&G 303 | Obstetrics and Gynecology |
| PCHI 302 | Psychiatry Clerkship |
| PEDS 303 | Pediatric Clerkship |
| SURG 303 | Surgery Clerkship |

ANATOMY

| Course | Course Title | Course Director | Location | Contact for Course Information | Phone | Fax | Email |
|-----------|-----------------------------|--------------------|---------------|--------------------------------|------------|----------|---------------|
| **ANAT291 | Special Projects in Anatomy | Frank Slaby, Ph.D | Ross Hall 212 | Dr. Slaby | 2/994-8813 | n/a | fjs@gwu.edu |
| *ANAT 501 | Didactic Anatomy | Kurt Johnson, Ph.D | Ross Hall 214 | Dr. Johnson | 2/994-8284 | 994-8885 | kurtj@gwu.edu |

*Indicates a course which may be taken for a two-week duration

** Can be scheduled for two weeks only

****ANAT 291 Special Projects in Anatomy**

An independent study program on any aspect of gross anatomy. Arrangements must be made with the instructor prior to the start date.

Report: Contact Course Director

Course Duration: 2 weeks only

Evaluation Method: Clinical (subjective) evaluation

***ANAT 501 Didactic Anatomy**

Didactic Anatomy 501 is an interdisciplinary course incorporating the major anatomical subjects, i.e., gross anatomy, microscopic anatomy, embryology, and neurobiology. The student shall design his/her own program of study in conjunction with the faculty by selecting a topic that addresses 2 of the 4 anatomical subjects. Each program will be done under the direction of 2 of the 4 following faculty members: F. Slaby (gross), K. Johnson (microscopic), K. Johnson (embryo), and R. Bohn (neuro). A paper is required as part of the evaluation.

Report: Contact Course Director

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) evaluation; paper

ANESTHESIOLOGY

| Course | Course Title | Course Director | Location | Contact for Course Information | Phone | Fax | Email |
|-----------|------------------------------|---------------------|--------------------------|--------------------------------|----------|----------|-------------------------------------|
| *ANES 302 | Introduction to Anesthesia | Marianne David, MD | GW Hosp G103 | Roya Navid | 715-5213 | 715-4759 | rnavid@mfa.gwu.edu |
| >ANES 380 | Anesthesia Sub Internship | Marianne David, MD | GW Hosp G103 | Roya Navid | 715-5213 | 715-4759 | rnavid@mfa.gwu.edu |
| ANES 384 | Intensive Care Unit | Katrina Hawkins, MD | GW Hosp G103 | Roya Navid | 715-5213 | 715-4759 | rnavid@mfa.gwu.edu |
| *ANES 387 | Pain Medicine | May Chin, MD | 2131 K St. 6th Floor, NW | Roya Navid | 715-5213 | 715-4759 | rnavid@mfa.gwu.edu chinm@gwu.edu |
| ANES 388 | Interventional Pain Medicine | Damon Robinson, MD | GW Hosp 6220 | Dr. Robinson | 746-7246 | 715-4759 | treatingpain@gmail.com |
| ANES 390 | Extramural Anesthesia | Nilda Salaman, MD | GW Hosp G103 | Roya Navid | 715-5213 | 715-4759 | rnavid@mfa.gwu.edu |

*Indicates a course which may be taken for a two-week duration

> Indicates a course which must be reserved by arrangement with the Course Director

ANES 302 Introduction to Anesthesiology*Fulfills anesthesia requirement • Not offered weeks 2-5**

This course is intended as an introduction to the specialty of anesthesiology. Students will develop an understanding of the anesthetic preoperative evaluation and the preoperative physiologic effects of anesthesia. In addition, students will gain experience in the areas of IV placement and airway management. Note: Students will be assigned, at the department's discretion, to GW Hospital or other affiliated hospitals. Additional faculty: Members of the Department of Anesthesia and Critical Care and the members of the anesthesia departments of affiliated hospitals.

Report: GW Hospital 6220 at 7:00 am

Course Duration: 2 weeks

Evaluation Method: Clinical (subjective) evaluation, written examination and seminar performance

>ANES 380 Anesthesia Sub Internship**Fulfills anesthesia requirement • Not offered weeks 2-5**

This course is an advanced elective in anesthesiology. After an introductory period, students will be expected to perform preoperative evaluations, define a plan of care, and implement the plan. All aspects of patient care will be immediately supervised by members of the Department of Anesthesiology. Weekly seminars will supplement the clinical experience. Additional faculty: Members of the Anesthesia and Critical Care Departments.

Report: GW Hospital 6220 at 7:00am

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation, written examination, and seminar performance.

ANES 384 Intensive Care Unit

The GW Hospital ICU is a unique multidisciplinary critical care unit that cares for all surgical and medical patients except pediatrics and burns. Students work as an AI with residents from Surgery, Anesthesia and Internal Medicine, and are closely supervised by the Critical Care attending physician and fellow. There is a great deal of clinical bedside teaching, as well as didactic presentations 3 days/week, daily x-ray rounds, and other collaborative teaching exercises. The student will learn how to evaluate and initiate treatment of the critically ill adult, including airway and ventilator management, resuscitation of shock, hemodynamic evaluation and interpretation, cardiovascular support, renal replacement therapy, nutritional support, use of blood component therapy, and peri-operative management. Students are taught and allowed to perform procedures. Night call is five times per month. Additional faculty includes: Dr. Michael G Seneff (Medicine), Dr. Christopher Junker (Anesthesia), Dr. Lakhmir Chawla (Medicine and Nephrology), Dr. Bruce Abell (Surgery), Dr. Lynn Abell (Surgery), Dr. Jacqueline Honig (Anesthesia), Dr. Seth Akst (Anesthesia), Dr. Vinayak Jha (Medicine), Drs. Jalil Ahari, Danielle Davison, and Katrina Hawkins (Medicine).

Report: 5th Floor ICU at 7:45 am. ICU Fellow's Number: 715-6141

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation 90%, and 15 minute presentation (objective) 10%.

ANES 387 Pain Medicine

The goals and objectives are to learn various acute and chronic painful conditions by evaluating patients and discussing options available for pain management. The student will encounter outpatients with spine related (back and neck), neuropathic pain, and cancer pain. They will learn pharmacological (opioids and non opioids) and non pharmacological options for pain control. The student will be exposed to various image guided interventional techniques in pain management. Students will have the opportunity to observe and assist in interventional procedures in the surgery center. The student will have an opportunity to observe regional techniques for perioperative pain control. Students may round with the Acute Pain Service on postoperative patients and assist with inpatient consultations. The student will have an opportunity to observe options for pain control at the Center for Integrative Medicine using complementary techniques and alternative medicine. If there is interest, there may be opportunities for the student to participate in research or study projects.

Report: Pain Management Center - 2131 K Street, Suite 600. Ask for Dr. Chin

Course Duration: 2 weeks or 4 weeks

Evaluation Method: Clinical (subjective) evaluation, oral presentation, and written test

ANES 388 Interventional Pain Medicine

Students will have an opportunity to shadow a board-certified anesthesiologist and pain physician in a private practice near George Washington. Students will learn about the management of chronic pain through a multi-modality approach which will consist of interventional pain procedures (epidurals, facet injections, lumbar sympathetic blocks, discography, spinal cord stimulation, trigger point injection, platelet rich plasma, prolotherapy, joint injections, etc) medication management so students will be more knowledgeable, comfortable and competent in managing complex patients who need opioids. Hours 7:30 - 3:30. No call. Additional faculty: Virgil Balint, MD

Report: Contact Dr. Robinson

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) evaluation

ANES 390 Extramural Anesthesiology Elective

The department may permit selected students to spend one or more elective periods at other institutions. This course available to GW students only.

Evaluation Method: Variable

EMERGENCY MEDICINE

| Course | Course Title | Course Director | Location | Contact for Course Information | Phone | Email |
|-----------|----------------------------------|------------------------|-------------------------|--------------------------------|----------|--|
| >EMED 302 | Emergency Medicine | Steven Davis, MD | 2120 L st NW, suite 450 | Scharlean Prevalle | 741-2996 | stdavis@mfa.gwu.edu |
| EMED 350 | Advanced Wound Management | Steven Davis, MD | 2120 L st NW, suite 450 | Scharlean Prevalle | 741-2996 | stdavis@mfa.gwu.edu |
| EMED 390 | Extramural Emergency Medicine | Steven Davis, MD | ACC 2B | Scharlean Prevalle | 741-2996 | stdavis@mfa.gwu.edu sprevalle@mfa.gwu.edu |
| EMED 504 | Emergency Medicine Research | Larissa May, MD | 2120 L st NW, suite 450 | Dr. May | 741-2920 | larissa.may@gmail.com |
| *EMED 508 | Health Policy Issues | Steven Davis, MD | 2120 L st NW, suite 450 | Dr. Davis | 741-2911 | stdavis@mfa.gwu.edu |
| *EMED 515 | Death and Dying: Grim Reaper 101 | Ryanne Mayersak, MD | ACC 2B | Dr. Mayersak | 741-2911 | ree@mfa.gwu.edu |
| *EMED 516 | Wilderness Medicine | Kris Lehnhardt, MD | 2120 L St. NW, #530 | Dr. Lehnhardt | 741-2911 | klehnhardt@mfa.gwu.edu |
| *EMED 517 | Point-of-care Ultrasound | Kathleen Calabrese, MD | 2120 L st NW, suite 450 | Dr. Liu | 741-2939 | kcalabrese@mfa.gwu.edu |

Fax number for Emergency Medicine Department: (202) 741-2921

*Indicates a course which may be taken for a two-week duration

> Indicates a course which must be reserved by arrangement with the Course Director

>EMED 302 Emergency Medicine

Fulfills emergency medicine requirement.

Space must be reserved prior to the lottery.

Reservation required weeks 2-13

Required clerkship for senior medical students. Students will work approximately 14 clinical shifts (day, evening, and night shifts) at GW Emergency Department and the Veterans Administration Medical Center Emergency Department in Washington, DC. Both are high acuity and high volume departments. Students function at an acting intern level with responsibility for patient care under the direct supervision of the faculty and residents of the Department of Emergency Medicine. This course offers a wound care lab, stimulation sessions, regularly scheduled student lectures, required readings and Grand Rounds. Students must attend GW and PG VAMC orientation during the first two days of the rotation in order to complete any clinical shifts. Students are required to have transportation to both clinical sites. This course is a pre-requisite for all elective rotations in Emergency Medicine.

Report: 9 am to Ross Hall on the first Monday of each rotation (room announced monthly)

Contact course coordinator for additional information

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation, written examination and attendance at mandatory didactics.

EMED 350 Advanced Wound Management

The course offers advanced lectures and clinical experience in wound management, laceration repair, external extremity reduction and burn management. Students attend weekly lectures, and participate in advanced wound care wet labs and hyperbaric treatment labs. Following successful completion of the orientation, the student will be assigned to work approximately 14 clinical wound care shifts (8hrs each), divided between the GW University Hospital Emergency Room and GW University Hospital Wound Center. Clinical shifts will involve first-hand wound care, including preparation, anesthesia, general and cosmetic repairs, dressings, splints and minor orthopedics and aftercare instruction, with one-on-one teaching and supervision by the Course Director, Physician Assistant, and Attending Staff. Night shifts: 2 or 3 (12 hours) per rotation. After initial computer match, students must contact Dr. Dorfman at 741-2920 at least one week before starting this clerkship.

Report: Contact Course Director

Course Duration: 4 weeks only

Evaluation Method: Clinical (subjective) evaluation, written evaluation, and seminar performance.

EMED 390-393 Extramural Emergency Medicine

The department will allow selected students to spend elective periods at other institutions. Available to GW students only.

EMED 504 Emergency Medicine Research

2 or 4 week elective in a selected topic of Emergency Medicine. Project can involve clinical or bench research but must be approved and directly monitored by an Emergency Medicine faculty member.

Students should contact Course Director at least 12 weeks before their elective is scheduled to begin research preparation.

*EMED 508 Health Policy Issues

Offered in weeks 40/41 only

Two week elective on health policy issues that pertain to the practice of Emergency Medicine including Access to Health Care, Emergency Department overcrowding, cost-benefit analysis of health expenditures and analysis of the health care debates that affect the practice and future of Emergency Medicine. Current Federal Health Care Reform topics will also be covered, with particular focus on their impact on the practice of Emergency Medicine. Students will attend weekday small group discussions led by GW Health Policy faculty, and participate in field activities to Congressional offices and Health policy institutions within Washington, DC.

Report*: Contact Course Coordinator

Course Duration*: 2 weeks

Evaluation Method*: Paper; Mandatory Attendance; Seminar performance

EMED 515 Death and Dying; Grim Reaper 101*Offered in weeks 18/19 only**

Discussion and course reading regarding death and dying. Course objective: To create a forum to discuss relevant issues related to death, dying, and end-of-life care. Participants will learn about the pronouncement of death and discuss how to address end-of-life care with a patient and patient's family. By the end of this course the participant should be familiar with such terms as durable power of attorney, living wills, as well as have a better understanding of the pathophysiology and spirituality of death. The participant will be graded on course participation and his course journal.

Report: Contact Course Director

Course Duration: 2 weeks

Evaluation: Seminar Performance and journal

EMED 516 Wilderness Medicine*Offered in weeks 42/43 only**

A two-week elective consisting of lectures, practicals, skill sessions and scenarios intended to expose students to the practice of medicine in extreme environments. Students will have the opportunity to practice skills and apply their knowledge in nearby wilderness environments. Course Duration: 2 weeks only available weeks 42/43

***EMED 517 Point-of-care Ultrasound**

An introduction to point-of-care, or bedside, ultrasound where students will learn the basic six diagnostic ultrasound assessments (including: trauma, cardiac, gallbladder, aorta, pelvic, and deep vein thrombosis), as well as procedural guidance (such as peripheral or central venous catheter insertion) using ultrasound. Students will achieve this through hands-on scanning with faculty and/or residents, reading of assigned materials, and journal club/conference participation. Students are afforded the opportunity to take either a 2 or 4 week elective and are to participate in the following. Students will complete a minimum of 28 hours per week of hands-on bedside ultrasonography, approximately 5 hours per week of quality assurance review and education regarding the prior week's ultrasounds, as well as self study time and content quizzes. The expectation is the completion of at least 50 ultrasounds within a 2 week period. 4 week students will be responsible for a 30 minute oral presentation on a topic of their choosing from the point-of-care ultrasound perspective to further their learning as well as that of their colleagues in the rotation, residents and faculty.

Report: Contact Course Director

Course Duration: 2 weeks or 4 weeks (unavailable weeks 1-5 & 22-27)

Evaluation: course will be graded as pass/fail only

INTERDISCIPLINARY MEDICINE

| Course | Course Title | Course Director | Location | Contact for Course Information | Phone | Fax | Email |
|-----------|--|---------------------------------------|-------------------------------|--------------------------------|------------|------------|--|
| IDIS 349 | Intn'l Medical Missions | Huda Ayas, EdD | 2030 M Street NW, Suite #4063 | Rick James | 2/994-4844 | 2/994-0074 | hayas@gwu.edu rjames@email.gwu.edu |
| IDIS 350 | Intn'l Medical Experience in Third World Service | Glenn Geelhoed, MD | Ross 741 | Dr. Geelhoed | 2/994-4428 | 2/994-0926 | gwg@gwu.edu |
| IDIS 351 | Teaching and Learning Knowledge and Skills | Jim Blatt, MD Larrie Greenberg, MD | ACC 5-421 | Karen Lewis | 2/994-1071 | 2/994-0926 | kllewis@gwu.edu |
| IDIS 352 | Intn'l Medical Systems | Huda Ayas, EdD | 2030 M Street NW, Suite #4063 | Rick James | 2/994-4844 | 2/994-0074 | hayas@gwu.edu rjames@email.gwu.edu |
| *IDIS 353 | Integrative Complementary Medicine | Mikhail Kogan, MD | 908 New Hampshire | Elena Gerasimov and Linda Lang | 2/833-5055 | 2/822-5755 | koganmik@gmail.com egerasimov@gwcim.com lindalang@theopen-door.com |
| IDIS 354 | Community Health Care | Lisa Alexander, EdD, MPH, PA | GW Hosp Rm 6188 | Tina Le | 2/994-7669 | 2/994-2636 | lmapa@gwu.edu |
| IDIS 360 | Health Policy Track Track Program Only | Malika Fair, MD Steven Davis, MD | Ross 718 | oso@gwu.edu | 2/994-2295 | 2/994-4740 | oso@gwu.edu |
| IDIS 361 | Emergency Management Track Program Only | Bruno Petinaux, MD | MFA | Dr. Petinaux | 2/741-2948 | 2/741-2921 | bpetinaux@mfa.gwu.edu |
| IDIS 363 | Research Track Track Program Only | Naomi Luban, MD Larrisa May, MD | Ross 718 | oso@gwu.edu | 2/994-2295 | 2/994-4740 | oso@gwu.edu |
| IDIS 364 | Child Health Advocacy | Lee Beers, MD | CNHS | Dr. Beers | Use email | Use email | LBeers@childrensnational.org |
| IDIS 365 | Environmental Health Track Elective | Jerome A. Paulson, MD | CNHS | Dr. Paulson | 2/471-4891 | | jpaulson@childrensnational.org |
| IDIS 370 | Intn'l Translational Research | Huda Ayas, EdD and Fernando Vidal, MD | 2030 M Street NW, Suite #4063 | Rick James | 2/994-4844 | 2/994-0074 | hayas@gwu.edu rjames@email.gwu.edu |

**Indicates a course which may be taken for a two-week duration*

***IDIS 349 International Medical and Surgical Missions**

Introduction: The following sites are available to 3rd and 4th year medical students who have completed the required two month rotations in the following areas: internal medicine; family practice; pediatrics; OB/GYN; surgery; and psychiatry. An application will be required and students must be in excellent academic standing. Medical missions range from one to two weeks and are based upon availability.

Course Duration: Minimum one week

Evaluation Method: Clinical (subjective) Evaluation; Reflection Paper

Course Designation: IDIS349

Course Title: INTL Medical Missions

Credits: 3 credit hours

Course Director: Huda Ayas, EdD

Course Coordinator: Rick James

Location: 2030 M Street NW, Suite #4063

P: 2/994-4844 F: 2/994-0074

hayas@gwu.edu or rjames@gwu.edu

Available Locations:

OmniMed - Mukono District, Uganda

OmniMed began in 1994 and is a non-profit organization that works to reduce global health inequality by inspiring more health providers to serve internationally, by enhancing their understanding of the reason for global inequity, and by running cooperatively designed, innovative programs in developing countries. Students will train via an online course and on site and then be able to train local Village Health Teams "VHT's" in the areas of malaria, maternal-child health issues, sanitation, clean drinking water and general education.

Child Family Health International (CFHI) - Worldwide

The Child Family Health International, Worldwide Locations. CFHI offers first-hand experiences alongside local physicians and public health experts in developing countries. Students can choose from an array of internships and clinical experiences from Primary care and social medicine, Sexual Health as a Human Right, Amazon Community and Indigenous Health and Reproductive Health. (Argentina, Bolivia, Ecuador, India, Mexico, South Africa and Uganda)

Operation Smile - Worldwide

Operation Smile provides comprehensive surgical and medical treatment to children and adults with facial deformities in a variety of international sites on several continents such as: Africa, Asia and South America. Each mission is fully staffed with attending physicians, residents, medical students and other support personnel. To check application deadlines for Operation Smile, and view upcoming missions please visit: <http://www.operationsmile.org/>.

Project MEDISHARE - Thomonde, Haiti

Project Medishare for Haiti, Inc., a 501.c3 non-profit registered in the State of Florida, was founded in 1995 by Drs. Barth Green and Arthur Fournier from the University Of Miami School Of Medicine. It is an organization dedicated to sharing its human and technical resources with its Haitian partners in the quest to achieve quality healthcare for all Haitians. GW has been sending groups of medical students, supervised by GW faculty, on medical missions to Thomonde since 2004. Medical missions to Haiti are generally planned in spring and summer for one week periods. During medical missions students will be working in rural Haiti, and will see around 250 patients a day with supervising physicians.

Operation Heartbeat - China & Other Developing Countries

Operation Heartbeat conducts surgical missions to China. The organization is currently expanding operations to Ethiopia and other developing countries. Participating in these missions provides students with a unique clinical learning opportunity in surgery. It will enrich and diversify student's medical education in a different physical setting and allow students to provide quality patient care to the people of China. Dr. Farzad Najam, a GW faculty member, and vice president of Operation Heartbeat, will coordinate student supervision for these surgical missions. Students will report to Dr. Farzad Najam, fnajam@gwu.edu

Partner for Surgery - Various Locations in Guatemala

Medical Missions

Six times a year, Partners organizes a one-week medical triage mission in Guatemala's rural area. Usually, 2 to 4 volunteer medical professionals (doctors and nurses) from North America evaluate approximately 1000 individuals and identify over 150 surgical candidates.

PfS has local community managers that inform and educate their communities through radio broadcasts, community meetings and personal contacts about surgical options by showing them our patient educational video. The local community managers also participate in the Medical Missions and help with the translation, social-economic study and scheduling of the patients referred for surgery.

Surgical Missions

Nearly every week of the year, surgical missions are organized by different international volunteer surgical teams at different surgical sites in Guatemala.

PfS brings in patients for these teams, particularly for those teams who reach out to the neediest of the poor. They provide all the necessary patient logistics (transportation, food, temporary housing). The local community managers confirm the patients, escort the patients to and from the hospital, provide personal attention, translate, serve as patient advocates and, if necessary, assist with the follow up.

IDIS 350 International Medical Experience in Third World Service

Medical care in the Third World involves resourceful application of limited resources to often-advanced diseases, including some exotic tropical disorders affecting large numbers of very needy people. Health practices of care and prevention are experienced in supervised settings and in challenging environments. Occasional night call as appropriate, approximately every third night. Additional faculty will include John F. Williams, M.D., and others.

Report: By arrangement with the Course Director.

Course Duration: 4 - 12 weeks

Evaluation Method: Clinical (subjective) evaluations; paper; report summarizing experience; seminar performance.

IDIS 351 Teaching and Learning Knowledge and Skills (TALKS)--teaching students to be educators

Practice of Medicine/The Clinician as Medical Educator

This senior elective will develop the participant's teaching skills in the clinical setting. Principles of adult learning theory, effective teaching techniques and evaluation of performance, including effective methods of giving feedback to trainees, are presented in didactic sessions. There is emphasis upon how to teach clinical skills effectively. This theory is put into practice by the participant in the elective, who serves as an instructor for freshman or sophomore students in physical diagnosis and interviewing, and an evaluator of their performance during standardized patient examinations. By serving as teacher and evaluator, the participant enhances his/her own clinical skills.

The course is credited as a four week elective, although required activities take place episodically during the fourth year. Several alternate dates for participation in required activities are offered. The participant is evaluated on the basis of attendance at all required activities, review of 28 videotapes of performance-based examinations, and feedback from faculty and from the students who have been taught clinical skills by the participant. Additional faculty includes: Drs. Benjamin Blatt, Larrie Greenberg, and Ms. Rhonda Goldberg. Seminars are in the evening. 4 week credit for participation in year-long course.

Evaluation Method: Clinical (subjective) evaluations; seminar performance

Course Directors: Benjamin Blatt, MD; Larrie Greenberg, MD

Contact Information: jblatt@gwu.edu; lgreenbe@gwu.edu

IDIS 352 International Medical Systems

Introduction: The following sites are available to 3rd and 4th year medical students who have completed the required two month rotations in the following areas: internal medicine; family practice; pediatrics; OB/GYN; surgery; and psychiatry. An online application will be required and students must be in excellent academic standing. Rotations range from four to eight weeks and are based upon availability.

Course Duration: Minimum of four weeks

Evaluation Method: Clinical (subjective) Evaluation; Reflection Paper

Course Designation: IDIS352

Course Title: INTL MEDICAL SYSTEMS

Credits: 5 credit hours

Course Director: Huda Ayas, EdD

Course Coordinator: Rick James

Location: Ross 2030 M Street NW, Suite #4063

P: 2/994-4844 F: 2/994-0074

hayas@gwu.edu or rjames@gwu.edu

Available Locations:

AFRICA

University of Ghana Medical School, Accra, Ghana

The University of Ghana is one of the most prestigious universities in West Africa. It is located in Accra, the capital on the southern coast of Ghana. The University was founded in 1948 as an affiliate of University of London. It gained full university status in 1961 as a public university, and currently it has over 42,000 students. The university has several international student exchange affiliations with US universities, UK, Germany and Sweden.

The University of Ghana Medical School (UGMS) is an accredited six-year medical program based on the British school system. The first students were admitted to UGMS in 1962. Currently UGMS has 984 medical students, as well as faculty and staff that comprise of local and foreign trained doctors, many of whom hold advanced degrees from institutions in the United Kingdom, United States, France and Japan. Many graduating UGMS medical students go on to residency training in the United States. The medical school has exchange agreements with universities in the US, UK, Japan and Sweden, and receives around 150 international students annually. Some of the medical schools in the U.S. include Tufts and New York University.

GW medical students can take electives in the following specialties while at UGMS: Medicine and Subspecialties, Paraclinical Sciences, Psychiatry, Surgery and Subspecialties, Community Health, ENT, Orthopedic Surgery, Ob/Gyn, Pediatrics, Radiology, Anesthesiology, Pathology, Laboratory medicine and Tropical Medicine.

ASIA AND THE SOUTH PACIFIC

Mahatma Gandhi Medical College and Hospital (MGMCH) - Jaipur, India

Mahatma Gandhi Medical College and Hospital is located in Jaipur, India. The school graduates around 100 students annually in its six-year medical program. The hospital, set up primarily to serve the economically disadvantaged sections of society, is a teaching hospital with 650 beds. MGMCH has electives in: general medicine and its sub-specialties including tropical medicine; general surgery and its sub-specialties; OBS/GYN; critical care medicine; dermatology; psychiatry; preventive and social medicine; ophthalmology; otolaryngology; orthopedics; neuro-surgery; pediatrics including neonatal; radiology; urology; anesthesiology and clinical pathology. Mahatma Gandhi Medical College will also provide GW students with free housing during their clinical rotation.

Nippon Medical School - Tokyo, Japan

Nippon Medical School opened in 1876 and has a long history of educating health professionals in Japan. This elective provides students with a medical and cultural experience to help foster a better understanding of the evolution and operation of Japan's health care system. Nippon offers electives in: medicine and sub-specialties; surgery and surgical specialties; emergency medicine and psychiatry. Students will be exposed to the differences in Japanese medical education, emergency medical system design, and hospital operations.

University of Kelaniya - Ragama, Sri Lanka

Founded in 1875 as a center of learning for Buddhist monks, Kelaniya was one of two great national centers of traditional higher learning in Sri Lanka. The University of Kelaniya is one of six medical schools in Sri Lanka. The faculty began classes with the admission of 120 students in September of 1991. Students may select a variety of specialties, mainly obstetrics and gynecology; pediatrics; surgery and infectious disease.

Hue Medical College - Hue, Vietnam

In 1957, Hue University was founded with four higher education faculties: Faculty of Teachers' Training, Faculty of Sciences, Faculty of Letters, and Faculty of Law. The Hue College of Medicine was founded in 1975, after the reunification of Vietnam. Hue University is a multi-disciplinary and multi-field training center with 7 affiliated colleges and two faculties under the direct management of Hue University. Students may select a variety of specialties at Hue: medicine and subspecialties; general pediatrics; anesthesiology; obstetrics and gynecology; surgery and surgical subspecialties and infectious diseases.

Hallym University - South Korea

Hallym University Medical Center (HMUC) started in March 1982 when Hallym University was established. The Medical School is associated with five major hospitals all of which are available to students for electives. The largest general hospital of the five is Hallym University Sacred Heart Hospital in Pyeongchon, which specializes in Neurology. This hospital can offer free housing for students (subject to availability). Hangeul Sacred Heart Hospital in Seoul specializes in burn victims. Kangdong Sacred Heart Hospital in Seoul specializes in head and neck surgery. Kangam Sacred Heart hospital in Seoul specializes in OBGYN. Chuncheon Sacred Heart Hospital in Chuncheon specializes in Gastroenterology. Students who choose one of the other four hospitals will have to pay for housing. In addition, Hallym can offer electives in medicine and subspecialties; pediatrics and subspecialties; family practice; anesthesiology; emergency medicine; clinical neuroscience; obstetrics and gynecology; surgery and surgical subspecialties; dermatology and otorhinolaryngology.

Khon Kaen University - Khon Kaen, Thailand

KKU was one of four regional universities established in 1964 as part of a decentralized development plan for higher education in Thailand. KKU's medical school was established in 1972 and was the first in the northeast region of Thailand and a leading academic center. Interdisciplinary and integrative teaching and research are particular strengths of KKU's mission and to produce medical practitioners as well as a range of complementary support scientists and lectures to serve Thailand, especially in the Northeast region. KKU's main interest emphases are on family medicine and community health and being a collaborative research center for addressing endemic health problems.

KKU provides an outstanding opportunity for students to partake in rotations related to rural and tropical disease medicine and other specialties through the Srinagarind (University) Hospital. Srinagarind Hospital is the main tertiary medical referral centre for Northeast Thailand and a modern and prestigious hospital and also serves as the main teaching hospital for the Faculty of Medicine for KKU. The hospital has over 1000 beds 21 operating theaters, 11 nursing care departments, a Blood Bank Center and serves over 700,000 out-patients and 50,000 in-patients each year. Srinagarind Hospital has a worldwide reputation for its treatment of cholangiocarcinoma, thalassemia, melioidosis, renal, calculi, and cleft lip/palate restoration as well as its dynamic community outreach.

CARIBBEAN, LATIN AND SOUTH AMERICA

Sabin Vaccine Institute - Minas Gerais, Brazil

The GW Department of Microbiology, Immunology, and Tropical Medicine (MITM) in collaboration with the Sabin institute have provided students with international research opportunities in Brazil since 2004. This elective is an opportunity for students to participate in patient-oriented research in hookworm vaccine clinical trial sites located in rural southeastern Minas Gerais State in Brazil. Students will participate in collecting blood and fecal samples from patients enrolled in hookworm vaccine studies, perform diagnostic examinations, and participate in data analysis. From this experience students will be able to gain knowledge of the importance of diseases that are not known of in their home country and gain a better understanding of tropical disease. Knowledge of Portuguese is helpful for this elective.

Universidad Latina de Costa Rica - San Jose, Costa Rica

Universidad Latina is a private university that has campuses throughout Costa Rica. The main campus is located in San Pedro, San Jose, Costa Rica. The university was founded in 1989 and offers clinical electives to students at Hospital San Rafael, Alajuela Hospital and other institutions in and around the San Jose region. Students may select a clinical specialty or basic science in the following areas: medicine and subspecialties; pediatrics and subspecialties; family practice; anesthesiology; emergency medicine; clinical neuroscience;

ophthalmology; surgery and subspecialties and urology. Diseases that plague Costa Rica are malaria and dengue fever, so working in infectious disease is also an option for interested students.

Universidad San Francisco de Quito - Quito, Ecuador

Founded in 1987, Universidad San Francisco de Quito (USFQ) was the first private university in Ecuador. This elective allows students to experience the Ecuadorian health care system through clinical rotations in the areas of tropical medicine and community medicine in rural primary health centers. In addition the following rotations are offered in urban hospitals: pediatrics and subspecialties; anesthesiology; emergency medicine; internal medicine; infectology; cardiology; obstetrics and gynecology and surgery. This program will be capped at 3 students per AY. Student applications will be accepted on a first come, first serve basis. (Students over this 3 person cap will be charged an administrative fee by Quito in the amount of \$450 a month, which will cover hospital, administrative and tutor expenditures).

Project MEDISHARE - Thomonde, Haiti

Project Medishare for Haiti, Inc., a 501.c3 non-profit registered in the State of Florida was founded in 1995 by Drs. Barth Green and Arthur Fournier from the University Of Miami School Of Medicine. It is an organization dedicated to sharing its human and technical resources with its Haitian partners in the quest to achieve quality healthcare for all Haitians. Students who choose this clinical rotation will gain a better understanding of infectious diseases, HIV/AIDS, tuberculosis and other related healthcare issues that continue to plague Haiti. Students will also be able to offer their expertise in the areas of patient care, training & education programs and lecturing.

Destiny University School of Medicine and Health Sciences - Rodney Bay, St. Lucia

Destiny University School of Medicine and Health Sciences, Saint Lucia was established in 2001 as The College of Medicine and Health Sciences, Saint Lucia, with the goal of combining traditional education and modern technology to train physicians worldwide. This elective will expose students to the tropical diseases that plague many Latin American and Caribbean regions. Students must perform standard clinical duties or research, whichever field is chosen and are expected to work closely with a designated faculty mentor, who will evaluate the student's progress. In addition to an elective in tropical medicine Destiny offers GW students electives in: medicine and subspecialties; pediatrics and subspecialties; family practice; anesthesiology; emergency medicine; clinical neuroscience; obstetrics and gynecology and surgery and surgical specialties.

Francisco Marroquin University - Guatemala City, Guatemala

UFM was founded in 1971 as a private, secular, coeducational, nonresidential, and nonprofit institution. Its mission is to "teach and disseminate the ethical, legal and economic principles of a society of free and responsible persons." UFM awards associate, bachelor, master, MD, DDS, and doctorate degrees in the fields of architecture, business administration, clinical nutrition, dentistry, economics, education, international relations, law, medicine, political studies, public accounting, psychology, and social sciences. UFM provides an outstanding opportunity for students to partake in rotations related to rural and tropical disease medicine through the Centro de Salud Barbara in San Juan Sacatepéquez. Centro Barbara has a primary care clinic with support services of laboratories, radiography, and an obstetric ward. It is staffed by two physicians, nurses and support personnel. In addition, the center serves 13 medical outposts for outpatient care, located in surrounding communities.

Naval Medical Research Unit-6 (NAMRU-6) - Lima, Peru

NAMRU-6 was founded in Lima and Iquitos, Peru in 1983 through an agreement between the Surgeon Generals of the Peruvian and U.S. navies, with the concurrence of the U.S. Department of State and the Peruvian Ministry of Foreign Affairs. The agreement established a cooperative medical research program in Peru to study infectious diseases of mutual interest. NAMRU-6's parent command is the Naval Medical Research Center (NMRC), which is collocated with the Walter Reed Army Institute of Research (WRAIR) at 503 Robert Grant Avenue Forest Glen, Maryland. NAMRU-6 is a DoD agency supporting the American Embassy and the U.S. Diplomatic Mission in Peru

The NAMRU-6's EID program conducts surveillance, response and related research in six general areas: 1) drug-resistant malaria, 2) antibiotic resistant enteric bacteria and distribution of other bacterial agents, 3)

distribution of influenza serotypes, 4) distribution of viral agents and associated disease syndromes, 5) vector distribution and insecticide resistance patterns, 6) outbreak investigation and response. Global influenza surveillance has emerged as the major effort of DoD-GEIS with the appearance of H5N1 strains in SE Asia, Europe and Africa. To maximize resources, there is considerable overlap among the surveillance and response efforts in these areas. In addition, the NAMRU-6 EID program conducts an extensive training program, described in more detail in a separate section, and assures aspects of technology transfer are incorporated within each project.

University of the Republic - Montevideo, Uruguay

The University of the Republic (UdelaR) was founded in 1849, the University of the Republic (UR) is the leading institution of higher education and research in Uruguay. In collaboration with a wide range of institutional and social actors, it is also conducting various activities aimed at socially-valuable use of knowledge and dissemination of culture. It is a public, autonomous institution and is co-governed by teachers, students and alumni. GW medical students can take electives in the following specialties while at UR: neurology (stroke inpatient service and Parkinson's disease outpatient clinic), hematology, emergency medicine, ICU, neurology and neurosurgery psychology, family medicine, surgery, burn treatment, and nephrology.

EUROPE

AAF/Max Kade Fellowship Program - Vienna, Austria

The American Austrian Foundation, a non-profit, non-governmental organization, seeks to enhance the relationship between the United States and Austria through providing the Max Kade Fellowship for student exchange in medicine, science, communications and the arts. Students may choose from an array of clinical specialties. This elective is offered each year to GW students during the months of February and April. Information about applying will be made available in the Fall 2013. The Max Kade Foundation offers scholarships to those qualified medical students, which covers transportation to and from Austria, as well as room and board. Knowledge of German is helpful for this elective.

University of Graz - Graz, Austria

The University of Graz, founded in 1585, was one of the first universities in Central Europe. Graz is an independent university that comprises of three research centers, 20 clinics and seven institutes. High quality teaching, research and medical care at the university hospital are the three focuses of the Medical University of Graz. Students may choose from an array of specialties in: anesthesiology; accident surgery; thorax surgery; pediatric surgery; medical university clinic; radiotherapy and radio-oncology; pediatrics; ophthalmology; neurology; neurosurgery; ENT; urology; radiology; orthopaedics; dermatology and psychiatry. Psychiatry is available only for German speaking students.

Mission Interuniversitaire de Cooperation Des Echanges Franco-Américains (MICEFA) - Paris, France
MICEFA is a non-profit consortium that includes 14 Universities in Paris, France, seven of which are medical schools. It was created in 1985 to promote cultural and scientific cooperation between France and North America. MICEFA's educational exchanges include students, post-doctoral students and faculty. Students may select one of the following clinical or research opportunities: medicine and subspecialties; pediatrics and subspecialties; family practice; anesthesiology; emergency medicine; clinical neuroscience; ophthalmology; surgery and subspecialties and urology. Research clerkships will be available in the areas of: biochemistry; molecular biology; genetics; immunology; pathology and physiology. Knowledge of French is necessary for this elective.

University of Malta - Valletta, Malta

Malta is a small, developed democratic Mediterranean island nation, positioned as a cultural and political stepping-stone between Europe and North Africa. Students interested in University of Malta will be assigned clinical rotations at St. Lukes General Hospital. Students may select any clinical specialty or basic science; however thalassaemia, dermatology and diabetes are recommended electives for interested students. In addition Malta has the following electives: medicine and subspecialties; pediatrics and subspecialties; family practice; anesthesiology; emergency medicine; clinical neuroscience; obstetrics and gynecology and surgery and surgical specialties.

University of San Pablo - Madrid, Spain

University of San Pablo (USP) was founded 75 years ago in Madrid, Spain to form the future leaders of Spanish society. USP has over 7,000 students and a faculty of 890, many of whom also hold positions in the Spanish medical, governmental, business and cultural worlds. USP has made a firm commitment to the internationalization of their programs since the University's inception. USP offers bilingual programs at the undergraduate and graduate level, and has created the International Internship Program, the Summer University, and the International Mobility Program to provide students, staff and faculty with international opportunities and services. USP offers medical Spanish courses, first year internship opportunities and clinical electives

Royal College of Surgeons Ireland (RCSI) - Dublin, Ireland

RCSI was established in 1784, as an independent, not-for-profit, health sciences institution with a unique international perspective from its headquarters in Dublin and its presence on three continents. Its original purpose was to train surgeons and set national standards for surgery in Ireland. To remain competitive in an international market by providing an internationally recognized and respected medical and health sciences qualifications and careers, RCSI continually invests in elevating educational standards, innovation and facilities.

RCSI will offer to GW medical students the opportunity to work with a number of affiliated public and private hospitals across all provinces within Dublin's eastern region with their partnership alliance with DCU and NUIM. In Dublin, students will be able work at the Beaumont Hospital and Connolly Hospital where students can rotate in Anesthesiology, Internal Medicine (Infectious Disease), Ophthalmology, Pediatrics, Pathology, OB/GYN, Psychiatry, Radiology, Surgery, and Trauma and Orthopaedic Surgery.

University of Rome - Tor Vergata Faculty of Medicine and Surgery - Rome, Italy

The University of Rome "Tor Vergata" (URTV) has a 640-hectares Campus. The Campus is located in the South-eastern suburb of Rome and is linked to the city center by Metro. It is a public University, founded in 1981, with six additional faculties: Economics, Engineering, Humanities, Law, Science and Medicine. URTV provides an excellent opportunity for visiting students to have a clinical experience in: Anesthesiology, Internal Medicine, Ophthalmology, OB/GYN Pediatrics and Radiology. In addition, students can assist faculty members in research of human and molecular genetics; identification of gene responsible for human, complex, gene and cell therapy of human disease, stem cells, cardiovascular genetics; identification of genomic biomarkers and their utility in clinical practice.

THE MIDDLE EAST

Alexandria University School of Medicine - Alexandria, Egypt

Established in 1942, Alexandria Medical School is one of the Middle East's pre-eminent institutions in medical education and research. The school has nearly 1500 faculty and 10 affiliated facilities. It is the second largest university in Egypt. The school is affiliated with four hospitals, Amiry Hospital and Shatby Hospital with specializations in obstetrics and gynecology, the Pediatric Hospital and El Hadara Hospital with specializations in orthopedics and neurology. Interested students also have the opportunity to gain a better understanding of schistosomiasis, which is a major health risk in Egypt. In addition to hospital specializations listed above Alexandria can offer clinical electives in the following areas: internal medicine and sub-specialties; community medicine; tropical medicine; surgical specialties; pediatrics and obstetrics-gynecology.

Jordan Hospital - Amman, Jordan

Jordan Hospital provides advanced medical expertise and multispecialty care to the community in Jordan's capital, Amman. Students will be able to select a clinical rotation in the following areas: surgery; medicine; obstetrics and gynecology; pediatrics and anesthesiology.

American University of Beirut (AUB) - Beirut, Lebanon

The American University of Beirut (AUB) was founded in 1866 as a private, independent, non-sectarian institution of higher learning. AUB has grown from 16 students in a rented house to a major university with over 7,400 students located on a 73-acre campus overlooking the Mediterranean Sea. AUB Medical Center is a 420-bed complex and provides all medical, surgical, pediatrics, obstetrics/gynecological and psychiatric services to the surrounding community. Students may choose from a variety of specialties that are offered at

AUB such as: internal medicine and subspecialties; pediatrics and subspecialties; OB/GYN; surgery and subspecialties; family medicine; dermatology; anesthesiology as well as research in basic medical sciences.

Hammoud Hospital University Medical Center (HHUMC) - Saida, Lebanon

HHUMC began in 1966 as a 20 bed facility which was primarily a small surgery and maternity hospital. Today HHUMC has acquired more advanced medical technologies and expanded and diversified its medical departments to include cardiovascular and thoracic surgery departments. The first cardiac transplant operation in the Middle East was performed at Hammoud Hospital in 1999. HHUMC offers electives in medicine and subspecialties; pediatrics; anesthesiology; emergency medicine; obstetrics and gynecology; and surgery and surgical specialties (including cardiovascular and transplant). HHUMC offers complimentary lodging for visiting medical students.

TRAD Hospital - Beirut, Lebanon

The Trad Maternity Hospital, as it was originally known, was founded in 1940 by the late Dr. Fouad Trad. Under the helm of Dr. Trad, who was one of the first Obstetrician/Gynecologists in Beirut, the institution quickly gained notoriety locally as well as regionally. This elective allows students to experience the Lebanese health-care system through clinical rotations at TRAD Hospital, a small private hospital in Beirut. Students may select a clinical rotation from an array of specialties; however, the most notable health issue in Lebanon is the rapid growth of breast cancer patients in Lebanon.

University of Balamand - Beirut, Lebanon

This elective provides clinical rotations at St. George University Medical Center. One of the oldest and most prestigious medical centers in Lebanon, St. George Medical Center, located in Beirut, opened in 1878 as a non-profit community hospital. Now in affiliation with the University of Balamand, students can do a variety of electives at this medical center that provides both inpatient and out-patient services to the community. Balamand offers electives in: medicine and subspecialties; pediatrics and subspecialties; family practice; anesthesiology; emergency medicine; clinical neuroscience; obstetrics and gynecology; surgery and surgical specialties. St. George University Medical Center also has a community health clinic for interested students.

Sackler School of Medicine, Tel Aviv University - Israel

The Sackler Faculty of Medicine is one of Israel's leading health-care resources. It combines a cadre of 1,600 physicians and scientists, and a physical plant centered at Tel Aviv University that reaches out to encompass the central region of the country, serving 40 percent of the population of Israel. This elective allows students to take electives in anesthesiology; dermatology; internal medicine and its subspecialties; neurology; neurosurgery; OB/GYN; ophthalmology; orthopedic surgery; pediatrics; psychiatry; radiology; general surgery and urology.

Al-Quds University - Jerusalem

Al - Quds University, also known as Jerusalem University, is located in the city of Jerusalem. The School of Medicine, associated with the city's Al-Makassed Hospital, is the first Palestinian Medical School. For security reasons students would only work in Al-Qud's Jerusalem based hospitals, and would not be placed in clinical settings in the surrounding towns or cities. Electives are available in the internal medicine (general medicine, rheumatology, cardiology and endocrinology); pediatrics and surgery (general and vascular surgery).

United Arab Emirates University - UAE

The College of Medicine and Health Sciences (CMHS) of the United Arab Emirates University is located in Al-Ain, UAE. It is the first and highest ranked medical school in the UAE, internationally recognized, has a high global ranking and is listed and accepted by the World Health Organization. Students would spend their elective time at either the Tawam Hospital or Al-Ain Hospital. Electives are available in internal medicine, OB/GYN, radiology, pediatrics, psychiatry and surgery.

MSIV International Clinical Elective Policies

Registration:

- All fourth year medical students participating in International Clinical Electives, regardless of whether they are in the Global Health Track or not, must register for IDIS 352 and apply through the International Medicine Programs (IMP) office. IDIS 352 must be at least four weeks in duration in order to obtain credit.
- All students participating in a one to two week medical mission for elective credit must register for IDIS 349 and apply through the IMP office.

Evaluations/Grading

- Students' grades for IDIS 349, 352 and 370 will be issued by Dr. Ayas. The grade will be a combination of the student's elective evaluation (completed by in-country mentor) and the student's reflection paper completed after the elective (to be assessed by Dr. Ayas). All students will email to the IMP office: rjames@gwu.edu their elective evaluations and upload reflection papers to Blackboard. Copies of documents will be submitted to the Dean's office along with student's final grade, whereby student's grades can be entered.
- Students who go abroad without properly registering for IDIS 349, 352, or 370 without first receiving approval from the IMP office will not receive credit for their elective.

Performance/Expectations:

- International Clinical Rotations: Students must be able to perform standard clinical duties during their rotation abroad and are expected to work with a designated faculty mentor, who will evaluate the student's progress.
- Operation Smile Missions: Students will report to a selected mentor for the country chosen for the mission.
- Haiti Medical Missions: Students will report to GW faculty member supervising the Medical Mission.

Scholarship Information (MSIV):

- International Clinical Electives Program (ICEP) Scholarship: The ICEP Scholarship provides third and fourth year medical students with the opportunity to enrich and diversify their medical education, broaden their public health knowledge and deepen their commitment to services by supporting experiential learning abroad. Students must be accepted into a GW affiliated or non-affiliated site before funds are awarded.
- Lynn and Ruth George Scholarship: students receiving this scholarship will not have their money released to them until IMP informs the Office of Student Opportunities (OSO) that the student's site was approved by IMP and that they were officially accepted by the site. If a student who receives a scholarship changes their site, they must resubmit their scholarship application to the OSO with new site information prior to leaving for the elective. If a student goes to a different site than specified on their funding application, without notifying the OSO prior to leaving, the student will be responsible for returning funding to the OSO.

Guidelines for MSIV Clinical Elective Reflection Papers

For: IDIS 349, 352 and 370

All Reflection Papers must adhere to the following guidelines:

- Name, Dates of Rotation, Location and Email Address
- 2-4 page paper (recommended length) or a 1 page paper along with a 5 minute video using a Video Recorder or a Smart Phone (optional)
- 12 font and double spaced
- JAMA or APA format if applicable
- Part I should include Logistics:
 - o Problems with housing, food, transportation?
 - o Was language a barrier to your educational learning?
 - o Travel advice for someone else going
 - o Anything you wish has been provided for you logistically that was not.
- Part II should focus on your academic experience:
 - o What did you learn?
 - o Did the elective align with your initial goals and objectives
 - o Comparison between US and country visited
 - o What else do you wish you had learned more about?
 - o Results and implications (if applicable)
 - o Recommendations for future study or further expansion on the experience
- Part III will be any additional information you would like to add

In order to receive credit from the Dean's office for your IDIS 349, 352 or 370 clinical electives, this paper, along with your signed evaluation form must be returned in the IMP Office, 2030 M Street, NW, Suite #4063 - Washington, DC. 20036

All students must submit their Evaluation and Reflection paper approximately two weeks after returning from their International Clinical Elective or Medical/Surgical Mission.

Integrative Medicine Track: IDIS 353

Integrative Complementary Medicine

Students will learn the definition, the philosophy and the practice principles of integrative medicine. The application of these principles will be demonstrated with a wide variety of patients who bring with them complex medical conditions. These diagnostic and management plans may include laboratory testing and treatment modalities not used in conventional medicine but are always based on good science and or long-standing traditions of practice. The students are encouraged to develop critical thinking, challenge what is being taught and incorporate what is appropriate for each individual student.

The Center is staffed with experts and experienced practitioners in their own fields and they are eager to share their knowledge with interested students. Students will often have a first-hand experience in some of the treatment modalities, e.g. Reiki, when there is such an opportunity. At the least, students will observe CAM (Complementary and Alternative Medicine) practices, such as, naturopathic medicine, acupuncture, herbal and homeopathic medicine, manual manipulation-chiropractic, hypnotherapy, and nutritional counseling. They will also observe how the members of the Center staff work together as an integrative team in the care of their patients.

There are weekly staff meetings where there are guest lecturers, presentations by CIM staff, case reviews and journal reviews. Students will have weekly meetings with Dr. Kogan to review current journal articles. Students are also encouraged to write a short paper on a topic of their choice in integrative medicine. Interested students are strongly urged to visit the Center website, www.IntegrativeMedicineDC.com, to learn more about the Center, its staff and its programs.

Course Duration: (typically 2-4 weeks)

Course Directors: Mikhail Kogan, MD

Contact Information: koganmik@gmail.com

Community Health Track: IDIS 354

Outpatient student run clinic experience at Bread for the City medical clinic. The clinics provide primary care to low income DC residents, regardless of their ability to pay. Students will be required to attend a minimum of twelve Tuesday evening sessions during the course of the year. In addition students will be expected to serve on a committee and/or review and update evaluation data, curriculum, training manuals or other special projects deemed necessary by the student steering committee. Enrollment in the elective is limited. Limited number of slots are available for 4th year students.

Community Health Track students and/or with experience as volunteer with the GW Healing Clinic are given registration priority.

Course Duration: In schedule for 4 weeks, but it's a year-long course

Course Director: Lisa Alexander, P.A., Ed.D., M.P.H.; lmapa@gwu.edu

Evaluation Method: Clinical (subjective) evaluation; Special Project

Health Policy Track: IDIS 360 *(Track Program Only)*

1. Research electives are available with selected members of Department of Health Policy Faculty and policy placements are available at institutions in the Washington area.
2. Students may have the opportunity to enroll in public health courses through the School of Public Health and Health Services. These would be longitudinal experiences lasting either 7 or 14 weeks during the Fall and/or Spring.
3. Individual electives arranged by students with health policy mentors of their selection may be available.

Course Duration: Variable (typically 4 weeks)

Course Directors: Steven Davis, MD

Contact information: stevenpatrickdavis@gmail.com

Evaluation Method: Clinical (subjective) evaluation

Emergency Management Track: IDIS 361 *(Track Program Only)*

OPTION A: 2-week IDIS EM 361 course:

- Present to EMED 302 students during your emergency medicine rotation a 2 hour lecture on emergency management - to be precepted by Dr. Petinaux and/or EMS/Disaster Fellow
- Attend two GWUH Emergency Management Committee Meetings during your fourth year of medical school (takes place @ 1 pm on the fourth Monday of every month within the Administration Board Room on the ground floor). Students are expected to attend two out of 12 meetings.
- Provide proof of your completion of the ICS courses by the start of your Capstone course during your fourth year
- Write a referenced Emergency Management Topic Paper (be sure to connect with Dr. Petinaux regarding your options)
- This elective can be done asynchronously

OPTION B: 4-week IDIS EM 361 course:

- Present to EMED 302 students during your emergency medicine rotation a 2 hour lecture on emergency management - to be precepted by Dr. Petinaux and/or EMS/Disaster Fellow
- Attend two GWUH Emergency Management Committee Meetings during your fourth year of medical school (takes place @ 1 pm on the fourth Monday of every month within the Administration Board Room on the ground floor). Students are expected to attend 2 out of 12 meetings.
- Provide proof of your completion of the ICS courses by the start of your Capstone course during your fourth year
- Take a 4 week elective at an organization or work on a project in emergency management
- Write a 2 page paper on your elective experience
- This elective can NOT be done asynchronously

Course Director: Bruno Petinaux, MD

Contact Information: bpetinaux@mfa.gwu.edu

Evaluation Method: Subjective evaluation, Special project

Research Track Elective: IDIS 363 *(Track Program only except by permission of instructor)*

This senior elective will serve to further develop the participant's skills in clinical and/or translational research. Students must participate in a clinical or translational research project for a minimum of 4-weeks. Six to eight weeks is highly recommended. Due to the nature of clinical and translational research, it is expected that activities related to this elective may have begun with previous summer experiences (Gill / Health Sciences / other) or project and extend throughout the senior year. Students must identify a research mentor for their project and have a signed mentor agreement (to be provided). Students must receive approval of their elective in advance by the Track Directors. The participant is evaluated on the basis of attendance at all required activities as determined by the mentor, feedback from the mentor, and the preparation of a manuscript suitable for peer review in a scientific journal. Single case reports will not qualify; case series will qualify only with significant new knowledge for the field. This manuscript may also be used to satisfy the requirements for the POM IV scholarly project.

Evaluation Method: Mentor (subjective) evaluations; submission of paper

Course Directors: Naomi Luban, MD; Larissa May, MD

Contact Information: nluban@childrensnational.org, larissa@gwu.edu

IDIS 364 Child Health Advocacy

Each student will undertake a health policy project that will simulate the way a physician would advocate in the public policy arena. Working with the course director or another faculty member, the student will identify a health issue, propose a solution for the issue, determine how to enact the solution and take steps to advance the solution in the public policy arena. The student will use population, epidemiological and other data to describe the issue and evidence-based information to craft the solution. In addition, the student will attend health-related legislative hearings and meetings with government officials and relevant organizations. (One student at a time)

Prerequisite: Requires approval of the course director

Duration: 2 or 4 weeks

Dates: Offered throughout the year for either a two-week or four-week block. Check with the course director before scheduling.

Course Director: Lee Beers, MD

Environmental Health Track: IDIS 365

- 1) Students may participate in a clinical elective at an occupational health clinic in the US approved by the Course Director. This would be a minimum of 4 weeks. Potential sites can be viewed at <http://www.aoec.org/documents/directory/CLINICSHORTLIST.doc>
- 2) Students may participate in a research or community project for a minimum of 4 weeks. This can be a continuation of a past project or involvement of a new project. This may also be undertaken on a part-time basis over a longer period of time at the discretion of the Course Director. Students must submit their research project topic to the Course Director.
- 3) Students may be able to take a course offered in the Department of Environmental and Occupational Health in the GW School of Public Health & Health Services. These would be longitudinal experiences lasting either 7 or 14 weeks during the Fall and/or Spring.

Course Duration: 4 - 14 weeks

Evaluation: Clinical (subjective) examination, paper, seminar performance

***IDIS 370 International Translational Research**

In collaboration with the Office of International Medicine Programs at GW, the University of San Pablo offers 4- to 8-week Translational Research Elective rotations to senior medical students in key specialty fields and medical disciplines at the Institute of Applied Molecular Medicine (IMMA). IMMA is a translational research facility devoted to human subjects research at the University of San Pablo-CEU and the Hospital of Madrid Scientific Foundation in Madrid (Spain). Please see listing of international rotation sites below for more on University of San Pablo.

Each rotation provides students with the opportunity to have direct experience in the study of patients enrolled in investigational protocols for diagnostic and therapeutic innovation with the help of experimental

bioassays and biotechnologic product developments under the co-mentorship of clinical and preclinical medicine scientists and faculty. Participants learn fundamental principles of translational research within a two-sided research track, from bedside to bench and thereafter from bench to bedside.

Please contact Office of International Medicine Programs for detailed course syllabus and application procedure.

Course Duration: 4 weeks or 8 weeks

Evaluation Method: Clinical/research Evaluation; Reflection Paper or other Academic research Project

Course Designation: IDIS 370

Course Title: INTL Translational Research

Credits: 5 credit hours

Course Directors: Huda Ayas, EdD and Fernando Vidal, MD

Course Coordinator: Rick James

Location: 2030 M Street NW, Suite #4063

P: 2/994-4844

F: 2/994-0074

hayas@gwu.edu or rjames@gwu.edu

MEDICINE

| Course | Course Title | Course Director | Location | Contact for Course Information | Phone | Fax | Email |
|----------|--|-----------------------|---------------------------------|--------------------------------|------------|------------|---|
| MED 301 | 3rd yr Clerkship in Primary Care | Robert Jablonover, MD | ACC 6 - 301 | Dana Brent | 741-2187 | 741-2791 | dbrent@mfa.gwu.edu rjablonover@mfa.gwu.edu |
| MED 305 | 3rd yr Clerkship in Medicine | Juan Reyes MD | ACC 6 - 301 | Dana Brent | 741-2187 | 741-2791 | dbrent@mfa.gwu.edu ssburney@mfa.gwu.edu |
| MED 332 | Acting Internship - GW Hospital | Farida Millwala, MD | ACC 6 - 301 | Dana Brent | 741-2187 | 741-2791 | dbrent@mfa.gwu.edu fmillwala@mfa.gwu.edu |
| MED 333 | Acting Internship - Inova Fairfax Hospital | Gregory Trimble, MD | Inova Fairfax Hospital | Kelsey Nieves | 7/776-3249 | 7/776-3020 | gregory.trimble@inova.org kelsey.nieves@inova.org |
| MED 334 | Acting Internship - Veteran's Med Center | Dragica Mrkoci, MD | VA Med Center | Woodrow Thompson | 745-8471 | 745-8184 | Dragica.mrkoci@med.va.gov Woodrow.Thompson@va.gov |
| MED 336 | Medical Intensive Care | Burton Lee, MD | WHC | Gaitri Tiwari | 877-7856 | 291-0386 | gaitri.tiwari@medstar.net Burton.w.lee@medstar.net |
| *MED 338 | Occupational and Environmental Medicine | Samuel Scott, MD | 1140 19th Street, NW, Suite 700 | Dr. Scott | 463-6698 | 223-6525 | sscott@woha.com |
| *MED 340 | Electrocardiography | Marco Mercader, MD | ACC 4-414 | Monica Jenkins | 741-2323 | 741-2324 | mmercader@mfa.gwu.edu mjenkins@mfa.gwu.edu |
| MED 341 | Primary Care and Health Services Research | Robert Jablonover, MD | ACC 6 - 301 | Dana Brent | 741-2187 | 741-2791 | dbrent@mfa.gwu.edu rjablonover@mfa.gwu.edu |
| *MED 342 | Geriatric/Palliative Medicine | Elizabeth Cobbs, MD | ACC 6 - 301 | Donna Farnan | 741-2191 | 741-2791 | ecobbs@mfa.gwu.edu dfarnan@mfa.gwu.edu |

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|-------------|---|--|--------------------|--------------------------------|----------------------|----------|---|
| MED 343 | Advanced Clinical Experience in Primary Care | Robert Jablonover, MD | ACC 6 - 301 | Dana Brent | 741-2187 | 741-2791 | dbrent@mfa.gwu.edu rjablonover@mfa.gwu.edu |
| MED 344 | Supervised Ambulatory Experience | Robert Jablonover, MD | ACC 6 - 301 | Dana Brent | 741-2187 | 741-2791 | dbrent@mfa.gwu.edu rjablonover@mfa.gwu.edu |
| *MED 350 | Infectious Diseases | Debra Benator, MD | VA Med Cntr 2CS/ID | Janet Royal / Woodrow Thompson | 745-8301 | 745-8432 | janet.royal@va.gov Woodrow.thompson@va.gov debra.benator@va.gov |
| MED 351 | Infectious Diseases | Afsoon Roberts, MD | ACC 8-436 | Dr. Roberts | 741-2234 | 741-2241 | aroberts@mfa.gwu.edu |
| MED 352 | Clinical Cardiology | Marco Mercader, MD | ACC 4-414 | Monica Jenkins | 741-2323 | 741-2324 | mmercader@mfa.gwu.edu mjenkins@mfa.gwu.edu |
| MED 358 | Clinical Cardiology | Julio Panza, MD | WHC | Gaitri Tiwari | 877-8278 | 877-2247 | julio.a.panza@medstar.net gaitri.tiwari@medstar.net |
| MED 360 | Clinical Cardiology | Steven Singh, MD Pamela Karasik, MD | VA Med Center | Kathy Chretien | 745-8471 745-8545 | n/a | n/a |
| MED 363 | Intensive/Coronary Care | Rahul Khosla, MD Nitn Seam, MD | VA Med Center | n/a | 745-8657 | 745-8184 | Rahul.khosla@va.gov |
| MED 364 | Intensive Care (By Reservation Only) | Greg Trimble, MD | Ffax Hospital | Kelsey Nieves | 7/776-3249 | 698-3020 | Kelsey.Nieves@inova.org gregory.trimble@inova.org |
| MED 365 | Coronary Care (By Reservation Only) | Greg Trimble, MD | Ffax Hospital | Kelsey Nieves | 7/776-3249 | 698-3020 | Kelsey.Nieves@inova.org gregory.trimble@inova.org |
| *MED 372 | Endocrinology/ Diabetes | Joshua Cohen, MD | ACC 3-416 | Dr. Cohen | 741-2489 | 741-2490 | jcohen@mfa.gwu.edu |
| MED 373 | Endocrinology/ Metabolism | Kenneth Becker, MD Eric Nylen, MD | VA Med Center | n/a | 745-8300 | n/a | Eric.nylen@va.gov |
| *MED 374 | Podiatry/Diabetes Care | Michael Stempel, DPM | ACC 3-416 | Dr. Stempel | 741-2489 | 741-2490 | mstempel@mfa.gwu.edu |
| *>MED 380 | Dermatology Clinic (By Reservation Only) | Karla Gayer, MD | ACC 2nd fl | Elizabeth Hazuka | 741-2625 | 741-2622 | kgayer@mfa.gwu.edu ehazuka@mfa.gwu.edu |
| MED 390-395 | Extramural Internal Medicine Elective | Juan Reyes, MD | ACC 6-301 | Dana Brent | 741-2187 | 741-2791 | sspurney@mfa.gwu.edu dbrent@mfa.gwu.edu |
| MED 403 | Cancer/Primary Care | Steven Krasnow, MD, Anthony Arcenas, MD | VA Med Center | Dr. Krasnow | 745-8175 745-4058 | 745-8131 | Steven.krasnow@med.va.gov Anthony.arcenas@va.gov |
| MED 405 | Medical Oncology | Dennis Priebat, MD | WHC | Jennifer Donnelly | 877-2824 | 877-8909 | dennis.a.priebat@medstar.net Jennifer.a.donnelly@medstar.net |
| MED 412 | Clinical/Research Gastroenterology/ Hepatology Elective | Marie Borum, MD, EdD, PhD | ACC 3-408 | Nadine Yancey | 741-2160 | n/a | mborum@mfa.gwu.edu nyancey@mfa.gwu.edu |
| MED 413 | Gastroenterology/ Hepatology | Marie Borum, MD, EdD, PhD | ACC 3-408 | Nadine Yancey | 741-2160 | n/a | mborum@mfa.gwu.edu nyancey@mfa.gwu.edu |

| | | | | | | | |
|----------|--|-------------------------|------------------------------|----------------|----------------------|-----------------|--|
| MED 414 | Gastro/Hepa/Nutrition | Timothy Lipman, MD | VA Med Center | Dr. Lipman | 745-8000 x6266 | 745-8453 | timothy.lipman@va.gov |
| MED 415 | Clinical Gastroenterology | Michael Gold, MD | WHC | Gaitri Tiwari | 877-7108 | 877-8163 | michael.gold@medstar.net gaitri.tiwari@medstar.net |
| *MED 430 | Clinical Hematology | Geraldine Schechter, MD | VA Med Center | Dr. Schechter | 745-8135 | n/a | n/a |
| MED 431 | Hematology/Oncology | Robert Siegel, MD | ACC 1-200 | Nadelyn Backer | 741-2478 | 741-2487 | ahu@mfa.gwu.edu or nbacker@mfa.gwu.edu rsiegel@mfa.gwu.edu |
| MED 442 | Pulmonary Diseases | Burton Lee, MD | WHC | Gaitri Tiwari | 877-8278 877-7856 | 291-0386 | gaitri.tiwari@medstar.net |
| *MED 447 | Pulmonary Medicine | Morgan Delaney, MD | ACC 8-404 | Dr. Delaney | 741-2316 | 741-2238 | mdelaney@mfa.gwu.edu |
| MED 451 | Musculoskeletal and Connective Tissue Diseases | Rodolpho Curiel, MD | ACC 3-416 | Dr. Curiel | 741-2488 | 741-2490 | rcuriel@mfa.gwu.edu |
| *MED 459 | Clinical Nephrology | Steven Burka, MD | 5520 Wisc | Dr. Burka | 3/654-3803 | 654-3808 | stevenburkamd@gmail.com |
| MED 461 | Clinical Renal Disease | Scott Cohen MD | ACC 3-438 | Dr Cohen | 741-2187 | 741-2285 | scohen@mfa.gwu.edu |
| *MED 472 | Office Practice of Allergy | Nirupma Rohatgi, MD | 9015 Shady Grove | Dr.Rohatgi | 301-963-0196 | n/a | drnrohatgi@gmail.com |
| *MED 520 | Palliative and Hospice Care | Christina Puchalski, MD | 2030 M Street NW, Suite 4014 | Dr. Puchalski | 202-994-6220 | 202-994-6413 | cpuchals@gwu.edu cpuchalski@mfa.gwu.edu |
| MED 521 | Clinical Ethics | Katalin Roth, MD | ACC 6-301 | Dr. Roth | 741-2206 | n/a | kr Roth@mfa.gwu.edu |
| *MED 522 | Narratives in and of Medicine | Linda Raphael, MD | 2901 29TH St | Dr. Raphael | 387-1512 | 994-1034 n/a | lraphael@gwu.edu |

*Indicates a course which may be taken for a two-week duration

> Indicates a course which must be reserved by arrangement with the Course Director

MED 332 Acting Internship in Medicine at GW Hospital

Fulfills AI Requirement

The acting internship in Medicine provides a structured clinical experience in the broad field of internal medicine and those specialty areas necessary for the care of the medical patient. It is designed to be a well supervised educational experience that will serve to improve and build upon those cognitive and technical clinical skills already attained during the third year medicine clerkship. Through the acting internship, the student will have the proper environment in which to learn the clinical skills and attitudes essential to the practice of internal medicine and the delivery of the highest quality patient care. The acting intern will fulfill clinical and academic responsibilities as an integral team member of an inpatient medical service.

Students will be assigned to an inpatient ward team. They will be responsible for completing an initial patient evaluation and diagnostic and therapeutic plans, for writing all medical orders (which must be countersigned by an MD), for coordinating the patient's care, writing progress notes and dictating the discharge summary. There is NO OVERNIGHT CALL. They will be permitted to have four (4) weekend days as holidays which will correspond to the days their team is off. They will be supervised by the team resident who will conduct the work rounds and will be supervised by the attending physicians who will conduct the teaching

rounds. In addition to the conferences scheduled for the interns, such as intern report, grand rounds, etc. dedicated 2 hour didactic sessions will be conducted every week with special emphasis on central line placement, ultrasound guided IV placement, clinical pathology and advanced interpretation of radiographs and EKG's.

After initial computer match and meeting with the Dean, the Department of Medicine will review the registration for this course. They have the prerogative to move students into and out of it. Because the acting intern actually replaces a house officer on this rotation, once the initial schedule is set (in the meeting with the Dean) no changes will be allowed. Special requests must be made two months in advance. Each student must register for at least four (4) consecutive weeks. Absences for interviewing, etc. will be permitted only under unusual circumstances and must be approved at least 2 weeks prior to the start of the rotation.

Note: *If a student has a special interest in hematology/oncology or pulmonary medicine, a special request can be made 2 weeks earlier so that they can be assigned to ward teams pertaining to those specialties.*

Site: The George Washington University Hospital, 900 23rd street, NW, Washington DC 20037

Report: Course coordinator will contact registered students.

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation on EValue.

MED 333 Acting Internship in Medicine at INOVA Fairfax Hospital

Fulfills AI Requirement

The Acting Internship on the GIM Service at Inova Fairfax Hospital provides an excellent opportunity for the student to assume a high level of responsibility for patient care. Each Acting Intern will develop a strong working relationship with a junior or senior resident, as well as, a designated teaching attending. This Acting Internship provides an opportunity to work with many different sub-specialties within the field of Internal Medicine. While at Inova Fairfax Hospital the student will attend conferences and rounds with the interns and residents. These include conferences in ID, GI, hematology, oncology, nephrology, cardiology, endocrinology, and rheumatology. There are additional interactive conferences in EKG, hematology slide reviews, cardiac auscultation, and physical diagnosis rounds. There is a separate daily morning report for the Acting Interns to focus teaching toward them. The experience is virtually the same as a regular intern carrying a normal load averaging 5 to 10 patients. The Acting Intern is an integral part of the medicine team at Inova Fairfax Hospital, thus you can expect to be on call every fourth day which includes overnight, and some weekend days. The Acting Internship is especially focused for those who wish to pursue a career in Internal medicine, a subspecialty of Internal medicine, or those who are getting ready for a transitional or preliminary year in Medicine. Absences for interviewing, etc. will be permitted only under unusual circumstances and must be approved prior to the start of the rotation.

Contact: Jennifer Ettridge, Student Services Coordinator

Report: Students will be notified by email.

Course Duration: 4 weeks

Evaluation Methods: Clinical (subjective) evaluation.

MED 334 Sub-Internship in Medicine at the Veteran's Affairs Medical Center

Fulfills AI Requirement

Students assigned to a patient care team under direct supervision of a University resident on general medical wards. Problem-oriented Medical Record System used. Students complete initial patient evaluation database and are responsible for clinical management during hospitalization. They write all orders, which must be reviewed and co-signed by the resident, and are expected to present their patients at attending rounds and conferences. Close supervision and guidance by the team resident, attending physician, and subspecialty consultants. After initial computer match and meeting with the Dean, the Department of Medicine will review the registration for the course. They have the prerogative to move students into and out of it. After initial registration, any contemplated changes must be approved by the Department of Medicine. There will be night call every fifth night. Absences for interviewing, etc. will be permitted only under unusual circumstances and must be approved prior to the start of the rotation.

Report: VA Med Center, Medical Services Office, Rm 4A155; 8:00am - Please contact the Coordinator for any other first day information.

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation on e-value.

MED 336 Medical Intensive Care**Offered weeks 2-5 and 7-10**

The ICU physician team is composed of 4 interns, 5 residents, two critical care fellows, two attendings, and up to 4 medical students. The medical student is an integral part of this team and functions as a sub-intern. Students learn through direct patient care, formal and informal rounds, assigned reading materials, daily lectures, and fellow-run tutorials. Each student will be given an ICU Manual which will contain the curriculum and the reading assignment for the rotation. The lectures compliment the reading material. The call schedule is every fourth night (inhouse). Additional faculty includes: Sanjay Desai, MD, Peter Levit, MD, Gene Colice MD, Chee Chan, MD and Andrew Shorr, MD.

Alternate Contact for Course Information: Gaitri Tiwari gaitri.tiwari@medstar.net 202-877-7856.

Report: Must reserve and confirm through the coordinator at WHC.

Course Duration: 4 weeks (Full four week attendance expected 4-6 days off). (\$5.00 deposit-free parking)

Evaluation Method: Clinical (subjective) evaluation, written examination

MED 338* Occupational and Environmental Medicine

Students are assigned to Washington Occupational Health Associates where the effects of various occupational and environmental health hazards are addressed. Participation in clinical intervention is provided under direct physicians' supervision. Emphasis on the relationship of occupational and environmental medicine to the practice of primary care. Travel opportunity to distant field sites is generally available.

Report: 1140 19th Street, NW, suite 700 Washington, DC 20036 9:00am (Pay parking available)

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

MED 340 Preceptorship in Electrocardiography**Offered weeks 12/13, 19/20, 40/41 and 44/45 only**

Independent reading of EKG's with supervision, discussion and review of relevant electrophysiologic topics. Additional faculty: Allan Solomon, MD and Cynthia Tracy, MD.

Report: ACC - 4-417 Cardiology Conference Room 3:00pm - Contact Monica Jenkins 741-2323 for further information

Course Duration: 2 weeks **Evaluation Method:** Clinical (subjective) evaluation, written examination

MED 341 Primary Care and Health Services Research

Research in the primary care and health services field. Participation in project relating to health care delivery, including medical audit, study of organization of health service and problems of underserved populations or other subject to be determined. Student will arrange their own research experiences as approved by the Course Director, though the Department of Medicine can assist in this process. Faculty will act as advisors for the project. All non-GW faculty advisors must be approved by the Course Director. Exchange with similar program in other institutions is possible.

Report: Contact Course Director for approval first

Course Duration: 4-8 weeks

Evaluation Method: Paper Clinical (subjective) evaluation, other

MED 342 Geriatric Medicine/Palliative Medicine

Clinical and/or research experience in the practice of geriatric medicine in a range of settings, including hospital, skilled and intermediate long term care facilities, congregate housing arrangements, outpatient practice, hospice and home visits. Flexible experience depending on the interest and background of the learner. Also opportunities to visit senior centers and day care facilities and work with case management team. Additional faculty: Dr. Karen Blackstone, Dr. Robert Jayes, Dr. Robert Kaiser, Dr. Nadia Marsh, Dr. Sonika Pandey, and Dr. Katalin Roth.

Report: Meet Dr. Cobbs at the Geriatric Medicine Clinic - VA Med Ctr - 8:30 am

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) evaluation; oral presentation on topic of interest.

MED 343/344 Advanced Clinical Experience in Primary Care/Supervised Ambulatory Experience

1. An opportunity for students who anticipate careers in primary care to further their clinical experience at an ambulatory care clinic serving pediatric, adult and geriatric patients.
2. A supervised experience within the Department of Medicine offered to fourth year students by arrangement between the Department of Medicine and the Dean's Office. This experience will often be used to strengthen areas of perceived weakness.

Report: Contact Course Director for approval first Robert Jablonover, MD rjablonover@mfa.gwu.edu

Course Duration: 2-8 weeks

***MED 350 Infectious Diseases**

This course will teach the student a logical approach to the diagnosis and management of a patient suspected of having an infectious disease. Students will participate on the Clinical Consult Service where they will encounter patients with a broad range of bacterial, viral, fungal and mycobacterial infections. Students will join residents and fellows in daily attending rounds, case conferences and student oriented teaching sessions. The clinical application of laboratory techniques used in the diagnosis and management of infectious diseases will be stressed through teaching sessions in the microbiology laboratory. Particular emphasis is placed on understanding and using the many new classes of antibiotics. Additional faculty includes: Drs. Fred Gordin, Virginia Kan, Ann Labriola, Cynthia Gibert, Angelike Liappis, David Ross, Leonard Sacks, Steve Gitterman, and Kendall Marcus.

Report: VA Medical Center, Medical Service Office 4A-155 (\$Parking available)

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) evaluation, oral presentations, case presentations.

MED 351 Infectious Diseases

The focus of the elective experience is on the diagnosis and management of patients with infectious disease problems. This includes the evaluation of patients on medical and surgical services. Clinically relevant aspects of microbiology and immunology are also explored. Academic activities include a joint case conference with the Washington VA Medical Center, which is held twice during the month. Other conferences include surgical pathology, clinical microbiology and the monthly Washington ID Society conference. Basic lectures by the fellows and faculty on major infectious disease problems, clinical microbiology and antimicrobial chemotherapy. Additional faculty include: Drs. Gary Simon, David Parenti, Carmelita Tuazon, and Dr. Marc Siegel.

Report: ACC 5-411; 8:30 am

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation; Seminar participation.

MED 352 Clinical Cardiology

General cardiology elective with two weeks on various cardiology services and 2 weeks on coronary care team. Exposure to outpatient clinic, pacemakers, invasive and non-invasive laboratories. Additional faculty: Richard Katz, MD, Alan Solomon, MD, Jannet Lewis, MD and Cynthia Tracy, MD.

Report: GW Hospital, 3rd floor - CVC; 8:00 am - Contact Monica Jenkins for further information at 741-2323.

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

MED 358 Clinical Cardiology

Active participation in the clinical cardiology service. Bedside evaluation is emphasized and is correlated with electrocardiography and other diagnostic studies, including stress testing, echo-cardiography, cardiac catheterization, nuclide angiography, etc. Additional faculty includes: Drs. S. Goldstein; William Suddath; E. Platia, S. Mendelson, S. O'Donoghue, P. Sears-Rogan, Leslie Miller, Jared Widell, Gaby Weissman, Zuyue Wang, and Howard Cooper.

Report: Washington Hospital Center, Cardiology Office (\$Parking)

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

MED 360 Clinical Cardiology

Experience in clinical cardiovascular problems under supervision of cardiology staff. Emphasis on history, physical diagnosis, and non-invasive cardiovascular techniques. Role of cardiac catheterization explained and results in specific cases discussed. Electrocardiography covered as one of the tools used to approach the cardiovascular patient. Patient management is integral part of course. Teaching rounds and conferences. Additional faculty includes: Drs. David Lu, Pamela Karasik, Michael Franz and Peter Carson.

Report: VA Medical Center, Contact Course Director for information

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

MED 363 Medical Intensive Care and Coronary Care Unit

This is a sixteen-bed, combined MICU/CCU. The elective emphasizes evaluation and management of acute medical illness including myocardial infarction, severe heart failure, cardiac dysrhythmia, respiratory, renal and hepatic failure, GI bleeding, acid-base and fluid-electrolyte disturbances. Students become familiar with procedures and devices used on the unit including cardioversion, temporary and permanent cardiac pacemakers, right heart and arterial catheterization, intraaortic balloon counterpulsation, invasive and non-invasive electrophysiologic study, mechanical ventilators and oxygen therapy. Students take call every third night with a medical resident and intern. Faculty includes pulmonary and cardiology staff.

Report: Contact Course Coordinator 72 hours before the start of the rotation for administrative and security processing.

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

MED 364 Medical Intensive Care Unit at INOVA Fairfax Hospital

Reservation Only Contact Kelsey Nieves (703-776-6699)

The ICUs at Inova Fairfax Hospital are extraordinarily busy with a high level of acuity. Inova Fairfax Hospital is the major referral center for the most critically ill patients in Northern Virginia. There are three ICUs which are covered by a large ICU team comprised of 2 or 3 residents and 3 interns in addition to rotating fourth year students. The types of cases seen are vast with all age patients. There is an emphasis on pathophysiology which involves a multidisciplinary approach. Students are given a high level of responsibility and are expected to work closely with their residents and attending to manage their patients. There is a pulmonary critical care attending who rounds daily with the ICU team. Students are expected to pre-round and present their patients then. There are ample opportunities to learn central line and arterial catheterization procedures. Students are also expected to attend a number of critical care conferences designed specifically for the ICU team. Students are required to take overnight call every fourth night, including weekends. Elective must be approved prior to enrollment by the medicine coordinator.

Report: Inova Fairfax Hospital, Dept of Medicine, 3rd floor, Green Elevators; 8:00 am

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation

MED 365 Coronary Care at INOVA Fairfax Hospital

Reservation Only Contact Kelsey Nieves (703-776-6699)

The Coronary Care Unit at Inova Fairfax Hospital is a 22 bed unit which remains full year round with cases that span all cardiac disease. The acuity remains high in the CCU, providing the student with an opportunity to manage the multiple cardiac medications and provides opportunities in working with Swan Ganz catheters and intra-aortic balloon pumps. The student can expect to see new patients with myocardial infarction almost on a daily basis. The student will work side by side with interns and directly with a resident and a cardiology teaching attending. The student will have the opportunity to work directly with cardiologists who specialize in electrophysiology, cardiac intervention and echocardiography. There are ample opportunities to enhance one's cardiology skills, as well as their intensive care unit skills. Students will be expected to carry their own set of patients (2 to 4) and to round on and present them on a daily basis. Students are expected to attend EKG conference, arrhythmia conference and weekly bedside auscultation rounds. Students will learn how to perform central and arterial line placement. There are opportunities to observe both electrophysiology procedures and cardiac catheterizations. Students are required to take overnight call every fourth night, including weekends.

Report: Contact the course coordinator for approval after registration and reporting information.

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation

***MED 372 Endocrinology and Diabetes**

Clinical experience in endocrinology and metabolism with an emphasis on outpatient care and longitudinal follow-up. Students examine patients and participate in the diagnosis and planning of therapy, daily rounds, weekly diabetic pregnancy clinic, didactic lectures, case discussions, journal club and conferences. Students will require valid ID and password for the Allscripts Electronic Health Record system.

*This course is available for 2 weeks with prior permission of the course director.

Report: Contact Course Director one week prior to rotation start date for information

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

***MED 373 Endocrinology and Metabolism**

Clinical experience in endocrinology and metabolism. Students examine endocrine patients, make preliminary diagnoses, and assist in treatment. Clinical rounds daily; weekly endocrine clinic, weekly review of abnormal laboratory tests, diabetic clinic and Journal Club, case discussions, didactic lectures. Weekly endocrine reviews based on assigned reading. Additional faculty includes: Drs. Eric Nylen, Robert Dufour, Meeta Sharma and the staff of all the associated hospitals.

Report: Contact Course Director or Coordinator at the VA Medical Ctr.

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

***MED 374 Podiatry and Diabetes Care**

Clinical experience in diabetes care and podiatric medicine and surgery, primarily in an outpatient setting. Emphasis on comprehensive evaluation and treatment of the diabetic patient, including diabetic foot care, diabetes self-care and exercise, as well as medical evaluation. In addition, students will evaluate common over-use and pain syndromes, and deformities involving the foot. Participants will work with a multidisciplinary team including an endocrinologist, podiatrist, and diabetes nurse-educator. Daily clinic, conferences. Additional faculty includes: Joshua L. Cohen, MD, Nilufar Medhane, DPM, and Irene McClain, RN.

Report: ACC, 3rd floor Clinic - Contact Course Director

Course Duration: 2 weeks

Evaluation Method: Clinical (subjective) evaluation.

***>MED 380 Dermatology Clinic** *Reservations required for all rotations.*

Conferences, lectures, and attendance at dermatology clinic where patients with wide variety of dermatoses are seen: diagnosis and treatment of common skin disorders, dermatologic surgery procedures, technique for using liquid nitrogen, culture and identification of fungi, and microscopic diagnosis of common cutaneous diseases. Faculty includes: Drs. Karla Gayer, Sunila Walia, and Alison Ehrlich.

Report: Contact Course Coordinator

Course Duration: 2 or 4 weeks

Evaluation Method: Conference participation, clinical (subjective) evaluation.

MED 390-395 Extramural Internal Medicine Elective

The department will permit students to spend elective periods at other institutions. Available to GW students only. Signature approval is required.

MED 403 Cancer and Primary Care

Cancer is one of the commonest illnesses in this country. The Primary Care physician will be involved in the diagnosis and care of many cancer patients. Furthermore, many oncologists serve as primary care providers for their patients. This rotation introduces the future generalist to aspects of cancer care that will be useful in his/her practice. Content: Office assessment of the cancer patient; clinical courses of common malignancies;

recognizing oncologist emergencies; supportive care principles - including pain management; cancer prevention and early detection. Additional faculty includes: Robert Wadleigh, M.D., Anthony Arcenas, M.D., Anita Aggarwal, D.O., Ph.D. and Dalia Mobarek, MD.

Report: VA Medical Center, Ward 2C North Room 2C122

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

MED 405 Introduction to Medical Oncology

New patient consultations, ward rounds, and clinic on patients with both hematologic malignancies and solid tumors. Daily discussions on selected topics in medical oncology. Interdisciplinary conference with the VA Hospital also included. Additional faculty includes David J. Perry, M.D, Joseph Catlett, M.D., Lawrence Lessin, M.D., Vera Malkouska, M.D., and Anita Aggarwal, OD, PhD.

Report: Washington Hospital Center, Washington Cancer Institute - C-2151

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

MED 412 Clinical and Research Gastroenterology and Hepatology Elective

Clinical and research experience directly supervised by course director. Will have clinical exposure to patients who have disease of the gastrointestinal tract, liver and pancreas as well as nutritional disorders. In patient and out patient consultations, teaching rounds, seminars may be incorporated into elective. Joint conferences with surgery, pathology, and radiology emphasize the multidisciplinary approach in digestive diseases. Research activity developed with student at the time of the elective. Expected publication by the end of the elective / academic year. Clinical activity may also include other divisional faculty.

Report: *** Only offered with approval of Associate Dean Scott Schroth and Dr. Borum - Contact Course Director for first day info.

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation; Research activity

MED 413 Clinical Gastroenterology-Hepatology

Intensive clinical experience with patients who have disease of the gastrointestinal tract, liver and pancreas as well as nutritional disorders. Patient consultations, teaching rounds, seminars. Joint conferences with surgery, pathology, and radiology emphasize the multidisciplinary approach in digestive diseases. Faculty also includes: Drs. Showkat Bashir, Marie Borum, Nisha Chand, Paul Chang, Allen Ginsburg, Sands Irani, Antoinette Saddler, and Steven Zeddun.

Report: Contact Course Director

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation; Seminar performance.

MED 414 Clinical Gastroenterology-Hepatology-Nutrition

Students will work closely with fellows in the Gastroenterology/Hepatology/Nutrition Section. They will see patients on consultations, and will be involved in the initial evaluation, patient investigation and follow-up. Close supervision will be afforded by both the senior Fellows and senior staff.

They will participate indirectly in all specialized procedures involving various biopsy techniques and endoscopies. They will attend teaching rounds, conferences and seminars. Additional faculty includes: Drs. Marino, Reid, Qazi, and Lazerow.

Report: VA Medical Center, GI-Hepatology-Nutrition Section Office, Rm 3A166, Please contact the Chief Medical Resident for additional information

Course Duration: 4 weeks Evaluation method: Clinical (subjective) evaluation.

MED 415 Clinical Gastroenterology

Course includes direct patient contact on a consultative basis, and participation in all section activities, including reviews of gastrointestinal pathology and radiology for individual patients, and all procedures, particularly endoscopic. The student will be expected to develop a fundamental core knowledge of basic gastroenterol-

ogy and to participate in a journal club and case conference. Night call is not required. A research focused elective with a minor aim of undertaking a project/topic for publication can be accommodated by special arrangement.

Report: Washington Hospital Center, Gastroenterology Section

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation; seminar performance.

***MED 430 Clinical Hematology**

Participation in the evaluation and treatment of patients with hematological disorders. Ward rounds, morphology review sessions, participation in hematology clinic and Journal Club. Additional faculty includes Dr. Joao Ascensao- VA Medical Center, Dalia Mobarek MD and Anita Aggarwal, MD.

Report: Contact Course Director 72 hours prior to the start of the course for administrative and security processing.

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

MED 431 Clinical Hematology and Oncology

any weeks except for weeks 7/8 and weeks 26/27

Immersion in the process of diagnosis and therapy of hematologic and oncologic disorders, including in-patient and out-patient consultations, daily care and follow-up of clinical hematologic and oncologic problems. Emphasis on blood and marrow morphology, tumor pathobiology, modern hematologic-oncologic diagnostic procedures, and treatment of blood diseases and cancer, including bone marrow transplantation. Additional faculty includes: Drs. James Ahlgren, Jeanny Aragon-Ching, Khaled El-Shami, Rebecca Kaltman, Lisa McGrail, Frederick Rickles, Alexandria Schwarsin, Imad Tabbara and other Division of Hematology/Oncology faculty.

Report: ACC 1-200; 8:30am

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation, written evaluation

MED 442 Pulmonary Diseases

offered weeks 2/5 and 7/10 only

Interpretation of pulmonary function studies; daily teaching rounds and supervised consultation on patients with various pulmonary and infectious diseases. Participation in pulmonary clinic; techniques and principles of respiratory therapy. Principles and experience with respiratory failure and respiratory intensive care. Washington Hospital Center.

Report: Contact Course Director

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

***MED 447 Pulmonary Medicine at GW**

Participation in the evaluation and treatment of patients with pulmonary disorders. Outpatient pulmonary and sleep medicine clinics, inpatient consultation rounds, pulmonary Blue Team rounds. Participation in all pulmonary conferences. Emphasis is on acquainting the student with the recognition, diagnosis (including diagnostic procedures) and management of common lung disorders. Chest roentgenology and evidence-based approach to management will be stressed. Faculty also includes: Drs. Guillermo Gutierrez, Susan Hasselquist, Vivek Jain, Vinayek Jha.

Report: ACC 3rd floor Specialties Clinic; 8:30 am

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) evaluation. Seminar performance.

MED 451 Musculoskeletal and Connective Tissue Diseases

Participation in the evaluation and treatment of patients with musculoskeletal pain and rheumatic diseases, with emphasis on out-patient management and including in-patient consults, and clinical conferences. Regular discussion of selected topics in rheumatology, emphasizing differential diagnosis, pathophysiology and therapeutic modalities. Additional faculty: Dr. James Katz.

Report: Contact Course Director

Evaluation Method: Clinical (subjective) evaluation, clinical conference participation, and multiple-choice examination.

***MED 459 Clinical Nephrology**

Outpatient/Inpatient treatment at private office and affiliated hospitals.

Report: 5530 Wisconsin Avenue NW, Suite 914, Chevy Chase, MD 20815

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) evaluations

***MED 461 Clinical Renal Disease**

Students will participate in the clinical evaluation and management of patients with renal disease in both an inpatient and outpatient setting. The students will see both new and follow-up patients on the inpatient Renal consult service and make rounds with the consult team. Students will learn to perform a urinalysis and microscopy. Students will be expected to attend a weekly renal outpatient clinic and all renal conferences. Students will also be expected to give brief topical presentations during rounds as assigned by the attending physician. Rotations may be either 2 weeks or 4 weeks in duration. Faculty includes Susie Lew, Manuel Velasquez, Dominic Raj, Nicolas Guzman, Samir Patel, Sharon Maynard and Lakshmi Chawla.

Report: GW Hospital, Dialysis Unit - 4th floor; 8:30 am (report to renal fellow).

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

***MED 472 Office Practice of Allergy**

Combined elective with allergy clinic at GW Hospital, Walter Reed, and NIH. Additional faculty includes: Dr. Henry Fishman.

Report: Please call before coming to office at 9015 Shady Grove Court, Gaithersburg, MD 20877

Course Duration: 2 weeks

Evaluation Method: Clinical (subjective) evaluation.

***MED 520 Palliative and Hospice Care**

Weeks 24/25 only

This course will teach the basis of palliative care and how to approach the care of patients with serious or chronic illness and/ or those who are dying. Palliative care is defined as starting from the time patients are diagnosed with serious illness, thus the principles of Palliative Care apply to patients dealing with chronic illness, over the span of their lives. Issues discussed will be pain management, other symptom management, common psychological and psychiatric issues, grief and spiritual distress, and ethical issues related to patient care as well as self-care of the physician. Students will also learn communication skills used in caring for seriously ill and dying patients and their families. The course involves some lecture and small group interaction and mostly clinical experiences at a variety of palliative care settings in Washington, DC including the VA, GW, Washington Home, and Thomas House and also do some house calls to patients' homes with an attending. Students will have an opportunity to work with physicians, nurses, social workers and chaplains, as well as attend interdisciplinary rounds and other interesting educational sessions.

Course Duration: 2 weeks

Evaluation Method: Paper; Seminar performance

***MED 521 Clinical Ethics**

Offered in weeks 40/43 only

Clinical medicine confronts physicians as residents and practitioners with daily ethical problems, such as understanding when to accept or seek to alter patient choices, what is an appropriate use of costly or limited medical resources, how much to disclose to patients about their condition and prospects and the risks of therapy, how to balance ethical responsibilities and legal hazards, how to handle the relationships to medical superiors, how to deal with the responsibilities to patients on whom as residents you are both learning from and giving care, and how to balance the clinical work with responsibilities to self and family during residency and practice. The course uses a short text and case discussion to provide a foundation of ethical knowledge for the learning and practice of clinical medicine.

Course Duration: 2 weeks

MED 522 Narratives In and Of Medicine*Offered in weeks 30 and 31 only**

Read short stories and essays, view films, write short reflections, and discuss matters that are relevant to your life as a physician. The texts represent the points of view of physicians, other health-care workers, patients, and caregivers. This course offers a unique opportunity to reflect on your career as a physician and to share insights with colleagues. The format will vary throughout the sessions (e.g., we will have one short play reading). Dr Raphael will be joined by a physician to lead the discussion for several of the meetings.

Course Duration: 2 weeks**Course Director:** Linda Raphael, MD**Evaluation Method:** Seminar Participation and Short Writing

NEUROLOGY

| Course | Course Title | Course Director | Location | Contact for Course Information | Phone | Fax | Email |
|----------|--------------------|------------------------------------|----------|--------------------------------|------------|----------|--|
| NEUR 380 | Clinical Neurology | Pritha Ghosh, MD & James Reese, MD | CNHS | Danielle Provost | 2/476-2654 | 476-5226 | pghosh@mfa.gwu.edu jreese@childrensnational.org dprovost@childrensnational.org |

NEUR 380 Clinical Neuroscience Clerkship**Fulfills Neuroscience requirement**

Students will be assigned to various sites. A site preference form for the Neuroscience Clinical Clerkship must be submitted upon enrollment. Students' preferences will include adult and pediatric neurology and neurosurgery sites.

There is a common didactic experience for this clerkship so that all students meet together and have a shared curriculum. Students will meet with the course director at CNHS on the first week of the rotation and will cover the neurological examination, coma examination, and clinical localization. The following three Thursday afternoons, students will meet at the GW Hospital with the adult neurology faculty for sessions on stroke, dementia, movement disorders, headache, multiple sclerosis, neuromuscular disorders and related topics.

The final week, students should deliver a 15-20 minute presentation on a topic of their choice at their home site (GW for students at GW Neurology; CNHS for rotations at CNHS, WHC and the VA). A handout including objectives and relevant content for other attendees is expected. Students will also be given a brief written examination during the final week of the rotation.

Students will receive Neurology and Neurosurgery curricula with objectives and associated references, as well as general information and a syllabus from the Neurosurgery department for supplemental reading via email prior to the start of their rotation. Expectations include keeping a log of patients seen (using initials for confidentiality) and their presenting symptom(s)/diagnosis. All students must submit a universal evaluation form to their primary clinical attending, along with 4 written H&P's (including differential diagnosis and plan).

Report: Information will be sent via email. Contact Course Coordinator.**Evaluation Method:** Clinical (subjective) evaluation, written examination (GW Neurosurgery); presentation.**NEUR 390-394 Extramural Neurology Elective**

Students can spend an elective period in another institution. They should arrange the elective with the other institution and bring a letter of acceptance/approval. Available to GW students only.

Evaluation Method: Variable.

NEUROSURGERY

| Course | Course Title | Course Director | Location | Phone | Fax | Email |
|--------------|---|--------------------|-----------|------------|----------|---------------------|
| >NSUR 380 | Neurosurgery – 4 weeks (Register for NEUR 380) | Anthony Caputy, MD | ACC 7-423 | 2/741-2750 | 741-2742 | acaputy@mfa.gwu.edu |
| NSUR 390-393 | Extramural Elective in Neurosurgery | Anthony Caputy, MD | ACC 7-423 | 2/741-2750 | 741-2742 | acaputy@mfa.gwu.edu |

> Indicates a course which must be reserved by arrangement with the Course Director

>NSUR 380 Clinical Neurosurgery

Fulfills Neuroscience requirement

Register for NEUR 380 and select NSUR on preference form

Clinical clerkship in neurosurgical service. Emphasis on neurological examination; indications for special neurological and operative procedures. This elective will meet the neuroscience requirement. Night call every third night; student will carry pager for rotation. Additional faculty: Anthony Caputy, MD, Norman Horwitz, MD, Hugo Rizzoli, MD and Mike Dennis, MD.

Report: Contact Course Director

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

NSUR 390-392 Extramural Neurosurgery Elective

The department may permit students to spend one or more elective periods at other institutions. There may be night call. Available to GW students only.

NEUROSURGERY

| Course | Course Title | Course Director | Location | Contact for Course Information | Phone | Fax | Email |
|----------|--|---------------------------|------------|--------------------------------------|------------|----------|--|
| OB&G 303 | 3rd Yr Obstetrics and Gynecology Clerkship | Charles Macri, MD | ACC 6A-423 | Nykhia Betts | 2/741-2510 | n/a | cmacri@mfa.gwu.edu nbetts@mfa.gwu.edu |
| OB&G 378 | Repro Endocrin and Infertility | David Frankfurter, MD | ACC 6A-423 | Nykhia Betts | 2/741-2510 | 741-2518 | dfrankfurter@mfa.gwu.edu nbetts@mfa.gwu.edu |
| OB&G 381 | Perinatal Medicine | Susanne Bathgate, MD | ACC 6A-423 | Nykhia Betts | 2/741-2510 | 741-2550 | sbathgate@mfa.gwu.edu nbetts@mfa.gwu.edu |
| OG&G 386 | Minimally Invasive Gynecologic Surgery | James Robinson, MD | ACC 6A-423 | Nykhia Betts | 2/741-2510 | 741-2550 | nbetts@mfa.gwu.edu |
| OG&G 387 | Gynecologic Oncology | Mildred Chernoesky, MD | ACC 6A-423 | Nykhia Betts | 2/741-2510 | 741-2550 | nbetts@mfa.gwu.edu |
| OB&G 390 | Extramural Obstetrics | John Larsen, MD | ACC 6A-427 | Nykhia Betts | 2/741-2551 | n/a | jlarsen@mfa.gwu.edu |

OB&G 378 Reproductive Endocrinology and Infertility

Participation in patient management of office gynecology focusing on reproductive endocrinology and infertility. Typical clinical problems will include menstrual disorders (amenorrhea, oligomenorrhea, etc), PCOS, premature ovarian failure, and infertility. Students will take part in daily assessment and management of patients; in addition, students will be able to observe diagnostic, operative and therapeutic procedures including hysteroscopy, laparoscopy, and those related to in-vitro fertilization (oocyte retrievals, embryo transfers, intracytoplasmic sperm injection). Involvement in clinical research of IVF outcomes and/or clinically-oriented laboratory experience in in vitro fertilization is available. Additional faculty includes: Drs. Gindoff, Frankfurter and Dubey.

Report: ACC Room 6-300 at 8:30am. Contact the course coordinator for further instructions.

Evaluation Method: Clinical (subjective) evaluation; Weekly Seminar Performance (presentation and discussion of 'interesting cases'); Final Evidence Based Presentation of REI topic of interest; Paper (if research performed)

OB&G 381 Perinatal Medicine

This course is designed for the 4th year medical student to participate in complicated obstetrics clinics and antepartum and intrapartum management of high risk obstetrical patients including ultrasound, prenatal diagnosis and genetic counseling. The student will also work with residents and faculty in Maternal Fetal Medicine at GW Hospital and the MFA outpatient clinic. Additional faculty: John W. Larsen, MD, Charles Macri, MD and Lisa Freese, M.S.

Report: GW Hospital, Labor and Delivery-3 North at 6:30 am. Contact course coordinator if additional information is required.

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation, paper

OB&G 386 Minimally Invasive Gynecologic Surgery

This course will expose 4th year medical students to the full array of complex minimally invasive gynecologic surgery including laparoscopic, hysteroscopic, robotic, and single-site approaches. Typical case volume is 20-30 cases. In addition to the surgical exposure students play an integral role in the busy consultative clinic and will be exposed to office procedures including flexible and rigid hysteroscopy, tubal sterilization, endometrial ablation, colposcopy, LEEP, transvaginal sonography, and urodynamics. Students will attend weekly Grand Rounds and Gynecology conferences and will take part in the MIS journal club.

Students will work closely with the Minimally Invasive Gynecologic Surgical Fellow, the Chief Resident, and Dr. James Robinson. All students are required to present a scholarly presentation toward the end of the rotation. There will be an opportunity for interested students to work on their technical laparoscopic skill in a laboratory setting over the course of the rotation.

Report: Contact Course Coordinator

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation

OB&G 390-395 Extramural Obstetrics & Gynecology Elective

The department will approve students to spend elective periods at selected institutions. Available to GW students only.

OPHTHALMOLOGY

| Course | Course Title | Course Director | Location | Contact for Course Information | Phone | Fax | Email |
|------------|---|------------------|-----------------|--------------------------------|------------------------|----------|-----------------------------------|
| >*OPHT 381 | Clinical Ophthalmology | Nancy Vilar, MD | ACC 2A 404 | Pat Johnson | 2/741-2493 | 741-2821 | patjohnsonson@mfa.gwu.edu |
| *OPHT 384 | Clinical Ophthalmology VA Hosptial, West VA | George Smith, MD | Martinsburg, WV | Dr. Smith | 304-263-0811 ext: 3530 | 741-2821 | gwophthalmologyrotation@gmail.com |
| OPHT 390 | Extramural Ophthalmology | Nancy Vilar, MD | ACC 2A 404 | Pat Johnson | 2/741-2493 | 741-2821 | patjohnsonson@mfa.gwu.edu |

*Indicates a course which may be taken for a two-week duration

> Indicates a course which must be reserved by arrangement with the Course Director

>*OPHT 381* Clinical Ophthalmology

Reservation required in weeks 2-9

Space must be reserved with the dept. prior to the match.

The rotation consists of observation and participation in the examination, diagnosis, and management of wide variety of ocular conditions in ambulatory patients. There is the opportunity to observe both in clinic and in the operating rooms. All subspecialties of ophthalmology are available and students are rotated through the department to enhance the overall exposure to ophthalmology. If interested a portion of the elective can be arranged at Children's National Health System with the pediatric ophthalmology faculty. Emphasis is placed on conducting a general ophthalmic examination with recognition of abnormal findings and management of common ocular diseases. Additional faculty at the MFA includes: Drs.: Craig Geist (Chairman), David Belyea; Sanjeev Grewal, Kenyon Kramer, Sankara Mahesh, Jeevan Mathura, Roberto Sunga, Tania Lamba, William Madigan, Sam Mansour, Mohamad Jaafar, Stanley Tempchin, Nancy Vilar (Clinical Educator); Tamer Mansour, Veena Raiji, and Geneva Cleveland O.D.

Report: ACC 2A Ophthalmology Clinic; 8:00 am to Pat Johnson. Please call/email Ms. Johnson one week prior to the start of the rotation to confirm your position.

Course Duration: 2 or 4 weeks (Offered July and August [weeks 2-9] by arrangement with the dept; open enrollment weeks 10-45)

Evaluation Method: Clinical (subjective) evaluation, written examination, oral presentation.

OPHT 384 Clinical Ophthalmology -Martinsburg V.A. Hospital

Observation and participation in examination, diagnosis and management of wide variety of ocular conditions. Emphasis on conducting a general ophthalmic examination, recognition of abnormal findings, and management of common ocular diseases. VA Medical Center, Eye Clinic 613/112, Martinsburg, West Virginia 25401

Report: Contact Course Director

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) assessment

OPHT 390-392 Extramural Ophthalmology Elective

Special elective program arranged for selected students at other institutions. Available to GW students only.

ORTHOPAEDICS

| Course | Course Title | Course Director | Location | Contact for Course Information | Phone | Fax | Email |
|-----------|-------------------------|-----------------------|-----------|--------------------------------|------------|----------|---------------------|
| *ORTH 302 | Orthopaedic Clerkship | Panos Labropoulos, MD | ACC 7-408 | Kristin McLinn | 2/741-3311 | 741-3313 | kmclinn@mfa.gwu.edu |
| >ORTH 380 | Orthopaedic Surgery | Robert Nevaizer, MD | ACC 7-408 | Kristin McLinn | 2/741-3311 | 741-3313 | kmclinn@mfa.gwu.edu |
| ORTH 390 | Extramural Orthopaedics | Robert Nevaizer, MD | ACC 7-408 | Kristin McLinn | 2/741-3311 | 741-3313 | kmclinn@mfa.gwu.edu |

*Indicates a course which may be taken for a two-week duration

> Indicates a course which must be reserved by arrangement with the Course Director

*ORTH 302 Clinical Clerkship in Orthopaedic Surgery

Basic clinical rotation: This course will partially fulfill the surgical subspecialty requirement. *All students in any given period must go to the hospital where that section's preceptor is located.* Preceptors are based at GW or an affiliated hospital. A faculty preceptor is assigned to each group of students and is responsible for didactic sessions on physical diagnosis, x-ray interpretation, arthritis, trauma, and reconstructive surgery. Much of the students' remaining time is spent with the orthopaedic residents, on ward rounds, in the Emergency Room or Operating Room or attending conferences. Night call is a requirement, 2 nights during the two weeks. Students cannot exceed an 80 hour work week. *You must contact Kristin McLinn at (202) 741-3311 or by e-mail: kmclinn@mfa.gwu.edu one week before your start day to find out where you will be assigned and where and when to report; this information will not be mailed to you.* Rotations at GW or affiliated Hospitals.

Report: Contact Course Coordinator

Course Duration: 2 weeks

Evaluation Method: Clinical (subjective) evaluation and written exam. Preceptor may assign a special project instead of an exam.

>ORTH 380 Orthopaedic Surgery

Reservation required in weeks 2-21

Space must be reserved with the department prior to the lottery.

Students desiring further exposure to orthopaedics may elect this preceptorship. ORTHO 302 is a prerequisite. Students will participate in in-patient and out-patient care of orthopaedic patients, daily rounds, conferences, etc., under the direction of two different faculty members one for each of two 2- week periods. Night call 4-8 times. Students cannot exceed an 80 hour work week. GW students should contact Ann Bond by e-mail: kmclinn@mfa.gwu.edu in May to pre-arrange this elective. Non-GW students apply over VSAS. GW students will not be able to sign-up for this course in the computer match. Sign-up for ORTH 390 and reserve space with the Orthopedic Department. The Dean will switch you into this course during your individual meeting. (\$Parking and Metro accessible)

Report: Contact Course Coordinator, Kristin McLinn

Course Duration: 4 weeks (*Offered July-November by arrangement with the Course Coordinator; GW students have first preference*)

Evaluation Method: Clinical (subjective) evaluation. Preceptor may assign a special project instead of an exam.

ORTH 390-393 Extramural Elective

The department permits students to spend elective periods at other institutions. *ORTHO 302 and ORTHO 380 are prerequisites.*

Available to GW students only. Call Dr. Nevaizer or Kristin McLinn at 202-741-3311 to prearrange.

PATHOLOGY

| Course | Course Title | Course Director | Location | Contact for Course Information | Phone | Fax | Email |
|-----------|-------------------------------------|---------------------|------------------------|--------------------------------|----------|----------|--|
| PATH 290 | Extramural Pathology | Donald Karcher, MD | 2100W Penn. Ave. #5027 | Silvia Locks | 994-2969 | 994-2618 | slocks@mfa.gwu.edu dkarcher@mfa.gwu.edu |
| PATH 296 | Surgical Pathology | Sana Tabbara, MD | GW Hospital | Silvia Locks | 994-2969 | 994-2618 | slocks@mfa.gwu.edu stabbara@mfa.gwu.edu |
| PATH 298 | Autopsy Pathology | Patricia Latham, MD | GW Hospital | Silvia Locks | 994-2969 | 994-2618 | slocks@mfa.gwu.edu platham@mfa.gwu.edu |
| *PATH 321 | Clinical Pathology/ Lab Medicine | Louis DePalma, MD | GW Hospital | Silvia Locks | 994-2969 | 994-2618 | slocks@mfa.gwu.edu depalma@mfa.gwu.edu |

**Indicates a course which may be taken for a two-week duration*

PATH 290-295 Extramural Pathology Elective

The department permits medical students to spend elective periods at other institutions. Available to GW students only.

PATH 296 Surgical Pathology - A Mini-Residency

A mini-residency - under supervision, the student participates in all activities conducted by residents: case sign-out of biopsies at double-headed microscope; case conferences at multi-headed scope; cutting of surgical specimens; dictation and formulation of macroscopic reports; attendance at intra-operative consultations; photography of gross specimens; students develop an almost one to one relationship with surgical pathology attendings. Course objectives: wide exposure to clinical role of surgical pathologist; rudiments of diagnostic process in surgical pathology through constant visual exposure to gross pathologic material and histologic slides; an attractive potential future career choice. Additional faculty includes: Drs. Sana Tabbara, MD, Arnold Schwartz, MD, PhD, M. Isabel Almira-Suarez, MD, Lysandra Voltaggio, MD, Katy Rezaei, MD, Oliver Szeto, MD, Norris Nolan, MD, Patricia Latham, MD, Marilyn Baird-Howell, MD, Alejandro Luiña Contreras, MD and Samantha Easley, MD.

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation; Seminar performance; composition of pathology reports; attendance at divisional conferences; participation in intra-operative consults; learning curve at microscope; processing of surgical specimens.

PATH 298 Autopsy Pathology

Organ changes in disease, gross and microscopic correlation, preparation of protocols. Participation in autopsy pathology service. Course not available until September.

Report: Contact Course Director

Course Duration: 4 weeks

Evaluation Method: Paper; seminar performance.

*PATH 321 Clinical Pathology/Laboratory Medicine

Rotations through clinical chemistry, hematology, microbiology, and transfusion medicine (blood bank) laboratories providing guided readings, laboratory experience, didactic presentations, weekly conferences, and opportunities for clinical consultation. Course emphasizes basic principles of laboratory technology applied to the diagnosis and management of clinical disorders, with special focus on the appropriate interpretation of laboratory data. Faculty also includes: Drs. Louis DePalma, MD, Donald Karcher, MD, John Keiser, MD, PhD., Elsie Lee, MD and Sugganth Daniel, MD.

Report: Contact Course Director

Course Duration: 2 or 4 weeks

Evaluation method: Clinical (subjective) evaluation.

PEDIATRICS

| Course | Course Title | Course Director | Location | Contact for Course Information | Phone | Fax | Email <i>For Children's USE @ childrensnational.org</i> |
|---------|---|--|---------------------|--------------------------------|--------------|--------------|--|
| Ped 303 | 3rd yr Pediatrics Clerkship | Terry Kind MD | Children's National | Wilhelmina Bradford | 476-5692 | 476-4741 | tkind@wcbadfo@ |
| Ped 361 | Peds AI – General Hospital Pediatrics (Orange Team) | Craig DeWolfe MD | Children's National | Wilhelmina Bradford | 476-5692 | 476-4741 | cdewolfe@wcbadfo@ |
| Ped 362 | Peds AI – General Hospital Pediatrics (Red Team) | Craig DeWolfe MD | Children's National | Wilhelmina Bradford | 476-5692 | 476-4741 | cdewolfe@wcbadfo@ |
| Ped 364 | Peds AI – General Hospital Pediatrics (Purple Team) | Craig DeWolfe MD | Children's National | Wilhelmina Bradford | 476-5692 | 476-4741 | cdewolfe@wcbadfo@ |
| Ped 365 | Peds AI – General Hospital Pediatrics at Holy Cross Hospital | Sandra Cuzzi MD | Holy Cross Hospital | Pat Cavey | 301-754-7236 | 301-754-7154 | cuzzis@holycrosshealth.org caveyp@holycrosshealth.org |
| Ped 366 | Peds AI – General Hospital Pediatrics Non-resident Service – PHAST Team | Stephanie Todd MD | Children's National | Wilhelmina Bradford | 476-5692 | 476-4741 | stodd@wcbadfo@ |
| Ped 368 | Pediatric HIV Infection | Natella Rakhmanina MD | Children's National | Keetra Williams | 476-3495 | 476-4450 | nrakhman@kkwillia@ |
| Ped 369 | Infectious Disease Consult | David Hyun MD | Children's National | Martha Mulugeta | 476-6151 | 476-3850 | dhyun@wcbadfo@ |
| Ped 371 | Community Pediatrics – Advocacy and Mobile Health | Marcee White MD | THEARC | Wilhelmina Bradford | 436-3060 | 436-3090 | mwhite@wcbadfo@ |
| Ped 372 | Child Abuse Evaluation | Tanya Hinds, MD | Children's National | Wilhelmina Bradford | 476-6708 | 476-6997 | thinds@wcbadfo@ |
| Ped 374 | Pediatric Oral Health –Mobile Dental Program | Holly Graham, RDH Kenneth Keyes, DDS, MPH Marcee White, MD | THEARC | Wilhelmina Bradford | 436-3097 | 436-3090 | hgraham@mwhite@wcbadfo@ |
| Ped 378 | Medical Genetics | Brendan Lanpher MD | Children's National | Wilhelmina Bradford | 476-2187 | 476-2390 | blanpher@wcbadfo@ |
| Ped 379 | Pediatric Critical Care | Christiane Corriveau MD | Children's National | Lennie Clore | 476-2130 | 476-5724 | ccorrive@wcbadfo@ |
| Ped 380 | Pediatric Gastroenterology | Jaime Wolfe MD | Children's National | Wilhelmina Bradford | 476-3032 | 476-4156 | jwolfe@wcbadfo@ |
| Ped 381 | Pediatric Allergy and Immunology | Cindy Nguyen MD | Children's National | Wilhelmina Bradford | 476-5692 | 476-4741 | cinguyen@wcbadfo@ |
| Ped 382 | Pediatric Diagnostic Imaging & Radiology | Matthew Whitehead | Children's National | Verne Mattox | 476-2497 | 476-3644 | mwhitehe@vmattox@ |

| | | | | | | | |
|-------------|---|---------------------------------|---------------------|------------------------------|----------|----------|--------------------|
| Ped 383 | Pediatric Pulmonary Med | Folasade Ogunlesi MD | Children's National | Wilhelmina Bradford | 476-3519 | 476-5864 | fogunles@wcbadfo@ |
| Ped 386 | Pediatric Hematology-Oncology Outpatient | Michael Guerrero MD | Children's National | Wilhelmina Bradford | 476-2800 | 476-5685 | mfguerre@wcbadfo@ |
| Ped 388 | Neonatal Intensive Care | Louis Scavo MD | Children's National | Sylvia McGuire | 476-5448 | 476-3459 | lscavo@smcguire@ |
| Ped 389 | Pediatric Cardiology | Chris Spurney MD | Children's National | Brenda Roach | 476-2020 | 476-5700 | cspurney@broach@ |
| Ped 390 | Extramural Pediatrics | Craig DeWolfe, MD Terry Kind MD | Children's National | Wilhelmina Bradford | 476-5692 | 476-4741 | tkind@wcbadfo@ |
| Ped 397 | Pediatric Nephrology | Sun-Young Ahn, MD | Children's National | Wilhelmina Bradford | 476-5058 | 476-3475 | syahn@wcbadfo@ |
| Ped 398 | Pediatric Sports Medicine | Nailah Coleman MD | Children's National | Wilhelmina Bradford | 476-4063 | 476-4613 | ncoleman@wcbadfo@ |
| Ped 399 | Ambulatory Adolescent Med | Brooke Bokor MD | Children's National | Angela Ellis | 476-2178 | 476-3630 | bbokor@aellis@ |
| Ped 400 | Pediatric Laboratory Medicine | Edward Wong MD | Children's National | Wilhelmina Bradford | 476-5292 | 476-2007 | ewong@wcbadfo@ |
| Ped 403 | Pediatric Physical Medicine & Rehabilitation | Olga Morozova MD | Children's National | Jennifer Okusanya-Aromashodu | 476-3094 | 476-5979 | omorozov@ookusany@ |
| Ped 405 | Pediatric Emergency Med | Shireen Atabaki MD | Children's National | Hilda Rojas | 476-4177 | 476-3573 | satabaki@hrojas@ |
| Ped 407 | Pediatric Healthy Generations – Teen Parent Program | Ruth Hollo, MD | Children's National | Wilhelmina Bradford | 476-6878 | 476-2381 | rscrano@wcbadfo@ |
| Ped 408 | Breastfeeding Medicine | Sahira Long, MD | Children's National | Wilhelmina Bradford | 476-6594 | 476-6579 | slong@wcbadfo@ |
| Ped 409 | Pediatric Hospitalist Consult Service (HELP team) | Miriam Bloom, MD | Children's National | Wilhelmina Bradford | 476-3957 | 476-3732 | mbloom@wcbadfo@ |
| Ped 410 New | Pediatric Orthopaedic Surgery | Benjamin Martin, MD | Children's National | Siobhan Hawkins | 476-4063 | 476-4613 | bdmartin@wcbadfo@ |
| Ped 411 | Advanced Pediatric Dermatology | Scott Norton, MD | Children's National | Wilhelmina Bradford | 476-3395 | 476-3621 | snorton@wcbadfo@ |

Each of these electives emphasizes an exposure to subject matter in a close working relationship with Children's National faculty.

Contact the Medical Student Education Coordinator, Wilhelmina Bradford at wcbadfo@childrensnational.org or 202 476-5692 for all inquiries about electives and their availability. Orientation and reporting information is sent via e-mail 3 weeks prior to the start date. There is a required registration fee of \$75.00 for up to 2 electives. Off-site parking/free shuttle is available for \$20 per month. Metro subway is also accessible for the Children's National main campus. Only AI, NICU, and PICU students receive on-site parking in the Children's National Staff Lot at \$54.00 per month.

Students will be allowed no more than 1 excused day off during a 2 week elective, 2 days off for an AI (assuming that the AI is scheduled for at least 20 shifts in a block) and 3 days off during a 4 week elective. Excused days may include illness, holidays, interviews, or examinations and all count equally to the number of days off for the period. (ie. Do not expect to take the allowed days off and plan an additional day for a holiday). Permission for additional days could be granted at the discretion of the elective and/or course director if the student contacts Ms Bradford and Dr DeWolfe at least 2 weeks prior to the start of the elective and the course director can provide alternate learning experiences. Students, however, should not expect that an alternate experience will be made available.

PED 361 Clinical Pediatrics A.i. - General Hospital Pediatrics Orange Team

Full-time Acting Internship in Pediatrics as part of the resident & hospitalist team. The overnight call experience will be provided during the 2nd or 3rd week of the rotation on the resident night float team. There is a weekend requirement. This elective provides a close working relationship with pediatric residents during their required inpatient ward month.

Course Duration: 4 weeks

Evaluation Method: Clinical evaluation

PED 362 Clinical Pediatrics A.i. - General Hospital Pediatrics Red Team

Full time Acting Internship in Pediatrics as part of resident & hospitalist team. The overnight call experience will be provided during the 2nd or 3rd week of the rotation on the resident night float team. There is a weekend requirement. This elective provides a close working relationship with pediatric residents during their required inpatient ward month.

Course Duration: 4 weeks

Evaluation Method: Clinical evaluation

PED 364 Clinical Pediatrics A.i. - General Hospital Pediatrics Purple Team

Full-time Acting Internship in Pediatrics as part of the resident & hospitalist team. The overnight call experience will be provided during the 2nd or 3rd week of the rotation on the resident night float team. There is a weekend requirement. This elective provides a close working relationship with pediatric residents during their required inpatient ward month.

Course Duration: 4 weeks

Evaluation Method: Clinical evaluation

PED 365 Clinical Pediatrics A.i. - General Pediatrics–Holy Cross Hospital

Full-time Acting Internship in Pediatrics as part of the resident & hospitalist team on a community hospital's general pediatric ward. The overnight call experience will be provided during the 3rd week of the rotation on the resident night float team. This elective provides a close working relationship with pediatric residents during their required inpatient ward month. Because all of the clinical responsibilities will be off of the Children's National Campus, personal transportation is required. Although there is no consistent exposure to resident conferences at Children's National, regular pediatric resident and medical student conferences are provided at Holy Cross Hospital. There is a weekend requirement. Holy Cross Hospital, 1500 Forest Glen Road, Silver Spring, MD 20901

Course Duration: 4 weeks

Evaluation Method: Clinical evaluation.

PED 366 Clinical Pediatrics A.i. - General Pediatrics–Non-Resident Team

Full-time Acting Internship in Pediatrics as a part of the attending hospitalist team. The patient pathology is similar to a community hospital but the care takes place at Children's Hospital. Students work with and present directly to the hospitalist faculty attending. The overnight call experience will be provided during the 3rd week of the rotation on the attending night team. There is a weekend requirement. Although residents do not typically participate in this elective, students will have an opportunity to interact with them during resident conferences.

Course Duration: 4 weeks

Evaluation Method: Clinical evaluation

PED 368 Pediatric Hiv Infection

A Letter of Interest is Required

In this elective, the student will learn about perinatal transmission of HIV, prevention of perinatal transmission of HIV and management of an infant born to an HIV-positive mother. The student will also learn about the clinical course and treatment of pediatric HIV infection, principals of antiretroviral therapy, HIV resistance, opportunistic infections and prevention. Additional aspects of training include international aspects of pediatric and adolescent HIV, HIV prevention (early identification and post-exposure prophylaxis), and clinical and bench research participation.

The student will participate in all Special Immunology clinical activities, multi-disciplinary team meetings and reviews of the research protocol. There may be opportunities to engage in a research project (ex chart review, short term project) – some of which go on to publication. No weekends or call. Although residents do not typically participate in this elective, students will have an opportunity to interact with them during resident conferences.

Course Duration: 4 weeks

Evaluation Method: Clinical evaluation and an optional research performance

PED 369 Pediatric Infectious Disease Consultation Service

Students will serve as members of the inpatient consultation team. Common conditions encountered include infections in immunocompromised hosts, complex pneumonia, musculoskeletal infections, unexplained fever, and tropical diseases. Students will develop increased competence in the appropriate selection and use of antimicrobial agents to treat bacterial, viral, fungal and parasitic infections. Students also are offered the opportunity to see patients in the outpatient clinic, participating in follow-up management of osteomyelitis and other disorders, as well as in evaluation of prolonged fever and other outpatient infectious disease conditions. Students also will participate in the Tuesday afternoon conference series and case discussion session. No weekends or call. Although residents do not typically participate in this elective, students will have an opportunity to interact with them during resident conferences.

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical evaluations, conference participation.

PED 371 Children's Health Project Of Dc - Children's Health Center @THEARC

The mission of the program is to ensure that all children have access to a medical home regardless of their ability to pay. Students doing a rotation with the Children's Health Project of DC will spend time at the fixed clinic site at Town Hall Education Arts and Recreation Campus (THEARC). Students will be exposed to the enhanced medical home model and advocacy. Other opportunities may include work on the mobile medical units, with dental and other ancillary care professionals, and at community events. Students will be assigned reading during the rotation to highlight the importance of medical homes and advocacy in the practice of medicine. Because all of the clinics and experiences will be off of the Children's National campus, public or personal transportation is required. Although there is no consistent exposure to CNHS resident conferences this elective does provide an opportunity to work with pediatric residents during their continuity clinic experience. No weekends or call. Children's Health Project of DC/Children's Health Center at THEARC - 1901 Mississippi Ave, SE, Washington, DC 20020

Course Duration: 4 weeks

Evaluation Method: Clinical Evaluations

PED 372 Child Abuse Evaluation

Students will focus on diagnosis and management of child abuse and neglect in the in-patient and out-patient setting. This elective offers a comprehensive overview of appropriate history taking and physical examination techniques. This elective includes opportunities to learn from normal and abnormal genital exams when there is concern for sexual abuse. Trainees participate in the comprehensive evaluation of physical abuse victims. Trainees will be exposed to skin manifestations of abuse, fractures, burns and abusive head trauma (shaken baby syndrome). Faculty and staff emphasize objective, systematic diagnosis and management of child maltreatment. There are opportunities to observe forensic interviewers, social workers, psychologists, law enforcement and legal colleagues who comprise the District of Columbia's Multidisciplinary Team. At the end of the rotation the trainee is expected to complete a reflection paper or a project that reflects the trainee's interest in an aspect of child abuse or neglect. No weekends or call. Although residents do not typically participate in this elective, regular attendance at Children's National resident conferences is encouraged. Course Duration: 2 or 4 weeks. A 4 week rotation will allow a greater opportunity for independent, direct patient care as skills are developed.

Evaluation Method: Clinical evaluation and end of rotation project.

PED 374 Pediatric Oral Health–Mobile Dental Program at the Children’s Health Project Of Dc/Children’s Health Center @THEARC

This elective is an introduction to pediatric oral health. Students will spend the majority of the time on a mobile dental unit at THEARC, various schools and other community sites in the District of Columbia and Prince George’s County, MD. Students will work closely with the dental team to learn the importance of oral health to overall health. Students will learn how to conduct an oral health assessment, apply fluoride varnish, and counsel patients on the prevention of early childhood caries. Students will be required to complete online modules from the Smiles for Life: A National Oral Health Curriculum (www.smilesforlifeoralhealth.org). Students will be assigned reading during the rotation to highlight the importance of the incorporation of oral health into the medical home model and advocacy in the practice of medicine. Because all of the clinics and experiences will be off of the Children’s National campus, public or personal transportation is required. Residents do not typically participate in this elective. There is no consistent exposure to CNHS resident conferences, No weekends or call. Children’s Health Project of DC/Children’s Health Center at THEARC - 1901 Mississippi Ave, SE, Washington, DC 20020

Course Duration: 2 weeks

PED 378 Medical Genetics

This elective provides an exposure to the principles of basic human genetics with an emphasis on the dysmorphic child, syndrome identification, and inborn errors of metabolism in the genetics clinic and through inpatient consultation. Additional emphasis on genetic testing and counseling will also be provided. No weekends or call. Although residents do not typically participate in this elective, students will have an opportunity to interact with them during resident conferences.

Course Duration: 4 weeks

Evaluation Method: Clinical evaluation.

PED 379 Pediatric Critical Care

Students participate in an inpatient rotation on a resident team focusing on the pathophysiology and treatment of life threatening illnesses, conditions, or injuries in childhood. Care will be provided in the context of careful fellow and attending oversight. Night -call weekly. There is a weekend requirement. This elective provides a close working relationship with pediatric residents during their required inpatient ward month. Whereas conferences specific to the students and residents on the team occur daily – and sometimes twice daily -- many students find it difficult to attend noon conference or morning report while on the rotation.

Course Duration: 4 weeks

Evaluation Method: Clinical evaluation.

PED 380 Pediatric Gastroenterology

Experience will be provided in GI, Hepatology, Nutrition, and Intestinal Rehabilitation. The student can choose the relative distribution of inpatient, consult, out-patient and procedure activities. On the inpatient service, the student is expected to follow 1-3 patients, including pre-rounding and presenting on daily rounds. He/she has the opportunity to see consults in the afternoon. Outpatient clinics include both general GI as well as Liver, Transplant, Inflammatory Bowel Disease, and other subspecialty clinics. These often are shadow experiences. Although no call or weekend hours are required, extended hours of pre-rounding and sign-out are expected on the inpatient service. This elective provides a close working relationship with pediatric residents during their required inpatient ward month. Students will also have an opportunity to attend resident conferences.

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical evaluation, Didactic/case

PED 381 Pediatric Allergy & Immunology

This elective is an introduction to pediatric allergy and immunology. The majority of the time will be spent in outpatient clinics at the main hospital and at our satellite clinic in Fairfax, Virginia; however, students will also participate in inpatient consults as well. The emphasis is on pediatric allergic disease but rotations through immunology clinics are also available. Students will be seeing patients and then discussing them with the faculty. Students will also work with fellows and sometimes work with residents during their elective time. Additional education is provided through allergy and immunology rounds and conferences. Students will some-

times have an opportunity to attend resident conferences. Personal transportation is required - Free parking is available at the Northern Virginia location. It is not easily accessible by Metro. No weekends or call.

Course Duration: 4 weeks

Evaluation Method: Clinical evaluation; Formal oral presentation.

PED 382 Pediatric Diagnostic Imaging & Radiology

Students participate in clinical rounds, teaching conferences, case discussions, research conferences, and journal reviews. Observation will be arranged in diagnostic radiology, ultrasound, nuclear medicine, computed tomography, magnetic resonance imaging, and cardiovascular interventional radiology. Student/faculty tutorials will occur. Students will be expected to present a short review paper, perform clinical-radiological correlation on active patients and read significant portions of the imaging literature. Problem solving will be stressed. Previous training in general (adult) radiology is highly recommended. Night call - not required - suggestion of observing two night calls in four weeks. There may be limited interaction with pediatric residents during their elective time but there is no consistent opportunity to attend CNHS resident conferences.

Course Duration: 4 weeks

Evaluation Method: Clinical evaluation; seminar performance.

PED 383 Pediatric Pulmonary Medicine

Students will become familiar with the most common pulmonary conditions in both in-patient and outpatient settings. By the end of the course students will understand the pathophysiology of common pulmonary conditions and apply this knowledge to clinical decision making and management. This rotation will enhance clinical skills in history taking and examination with specific focus on the respiratory systems. Common areas of focus will include asthma, cystic fibrosis, obstructive sleep apnea, bronchopulmonary dysplasia, pneumonia, and SIDS. Attention will be given to pulmonary function testing. No weekends or call. The inpatient portion of the elective provides a close working relationship with pediatric residents during their required inpatient ward month. The outpatient portion does not provide regular exposure to residents. Regular attendance at resident conferences is encouraged.

Course Duration: 4 weeks

Evaluation Method: Clinical evaluation, case presentation.

PED 386 Pediatric Hematology Oncology

Students will be exposed to the outpatient diagnosis and management of children with hematologic and oncologic diseases. The student will work with different fellows and attendings based on their specialty focus. Examples include clinics focused on general hematology, sickle cell, bleeding disorders, thrombosis, blood cancers, solid tumors and brain tumors. Laboratory experiences include examination of peripheral blood smears and bone marrow aspirates, as well as the interpretation of laboratory tests used in the diagnosis and management of these patients. A shadowed inpatient experience can be provided based on student interest. No call or weekend hours are required. The outpatient portion does not provide regular working exposure to residents; however, regular attendance at resident conferences is encouraged.

Course Duration: 4 weeks

Evaluation Method: Clinical evaluation; Seminar performance.

PED 388 Neonatal Intensive Care

Students will participate in the intensive care of infants on the 2nd and 3rd year resident team. Neonatal disease and physiology are emphasized. Patient care is provided in the intensive care unit to out-born infants only. It is possible that delivery room experience can be arranged if students are interested. This elective provides a close working relationship with pediatric residents during their required inpatient ward month. This elective provides a close working relationship with pediatric residents during their required inpatient ward month. Whereas conferences specific to the students and residents on the team occur regularly, many students find it difficult to attend noon conference or morning report while on the rotation. The overnight call experience will be provided during the 2nd or 3rd week of the rotation on the resident night float team. There is a weekend requirement.

Course Duration: 4 weeks

Evaluation Method: Clinical evaluation

PED 389 Pediatric Cardiology

Students will work with the outpatient pediatric cardiology clinic team. Emphasis is provided on physical diagnosis of congenital and acquired heart disease, interpretation of electrocardiograms and echocardiograms. Exposure will be offered in cardiac catheterization and cardiac MRI's. Optional observation of cardiac surgical procedures will be made available. Although the elective may be adapted to allow care of admitted patients with the pediatric residents during their required inpatient ward month, the outpatient experience does not provide regular exposure to residents.

Preventive Cardiology Option

This separate outpatient elective will engage students in cardiometabolic health screening, teach tenets of behavioral change counseling and motivational interviewing, provide exposure to the continuum of care in weight management, and apply the relevant pathophysiology in managing patients at risk for complications of obesity. The student will work primarily with cardiologists and a multi-disciplinary team of pediatricians, surgeons, and ancillary care professionals who treat patients with or at risk for cardiometabolic illnesses, both inherited and acquired, in association with obesity and insulin resistance. Students may also engage in community health initiatives that apply evidence-based nutrition and activity heart-healthy guidelines in DC schools and research protocols associated with obesity. This experience does not provide regular exposure to pediatric residents.

Students are expected to participate in cardiology departmental conferences. No weekends or call. Experiences can be provided at regional outpatient clinics. When at Children's Hospital, regular attendance at resident conferences is encouraged.

Course Duration: 4 weeks (a 2 week option is available for preventive cardiology)

Availability: All year for the Cardiology elective.

For the Preventive Cardiology option only during mutually agreeable times. Personal transportation is strongly encouraged in preventive cardiology.

Evaluation Method: Clinical evaluation and a formal case presentation.

PED 390 395 Extramural Pediatric Elective

This elective is available to GW Students only. The department permits students to attend electives at other institutions. Students will need signature approval.

PED 397 Pediatric Nephrology

Students will be involved in ambulatory, inpatient and consultative pediatric nephrology. The breadth of patient exposure ranges from those with common primary care problems to those who have complex nephrological disorders, including acute and chronic renal failure on dialysis. Attendance at regularly scheduled conferences is expected. No weekends or call. Although residents do not typically participate in this elective, students will have an opportunity to interact with them during resident conferences. Outpatient sites are in the Maryland, Virginia and DC area. A car is required.

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical evaluation; seminar performance

PED 398 Pediatric Sports Medicine

The rotation will serve as an introduction to the field of Orthopedics and Sports Medicine. In general, this rotation will include clinic-based and non-clinic activities. Clinic activities may include sports medicine clinic, fracture clinic, bone health clinic, and general orthopedics clinic. OPEN clinic times can be spent in radiology or physical therapy. Non-clinic activities may include didactics, journal club, training room, game and event coverage, and operating room observation. Rotators will be expected to be present at/participate in the sports medicine lecture (monthly) and indications conference (weekly on Thursdays at 7 am). Many of the clinics and experiences will be off of the Children's National campus. Evening and / or weekend attendance at local high-school sporting events will be required. Personal transportation is required. Pediatric residents do not typically participate in this elective. There is no consistent exposure to CNHS resident conferences.

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical evaluations, Case Presentations and Journal Club Presentations

PED 399 Ambulatory Adolescent Medicine

Out patient clinic experiences in the diagnosis and management of problems of patients between 12 years and adulthood under the supervision of senior staff and fellows. In addition to primary care in the Adolescent Health Center, students get to experience many different aspects of Adolescent Medicine. Based on interest level and availability, we can arrange further experience with our eating disorder clinic, HIV interdisciplinary meetings, inpatient adolescent medicine team, teen education programs (birth control class and teen life clubs), and pediatric gynecology. Additional participation in medical teaching conferences and Adolescent Grand Rounds will be expected. No weekends or call. This elective provides a close working relationship with pediatric residents during their required outpatient adolescent month and adolescent medicine fellows. Regular attendance at resident conferences is encouraged.

Course Duration: 4 weeks

Evaluation Method: Clinical evaluation and topic presentation.

PED 400 Pediatric Laboratory Medicine

This elective is intended for fourth year medical students interested in pediatrics. Students will spend four weeks in the Division of Laboratory Medicine at Children's National Health System gaining an understanding of what tests should be ordered, how they are performed, and the clinical significance of test results. They may choose to concentrate their experience in a particular area of the laboratory (e.g. chemistry, hematology, transfusion medicine, microbiology, molecular diagnostics, biochemical genetics, immunology, or laboratory informatics) or they may choose a broad exposure to all aspects of pediatric laboratory medicine. Students are expected to present a case study highlighting the role of the laboratory in diagnosis and/or management of a disease. In addition students will attend divisional meetings dealing with laboratory test utilization, quality of laboratory testing, and laboratory informatics. Although residents do not typically participate in this elective, students will have an opportunity to interact with them during resident conferences. No weekends or call.

Course Duration: 4 weeks

Evaluation Method: Clinical evaluation; Seminar performance

PED 403 Pediatric Rehabilitation Medicine

Students will learn about management of patients with acute and chronic childhood disabilities including but not limited to cerebral palsy, Spina Bifida, brain injury, neuromuscular disorders, and other disorders of the spinal cord. The rotation includes inpatient consults and ambulatory clinics including multidisciplinary Muscular Dystrophy, Spasticity, and Spina Bifida clinics. Students will learn the functional neuromuscular exam, become familiar with physical and occupational therapy, adaptive equipment and orthoses and will get exposure to chemodenervation procedures as a part of spasticity management. No weekends or call. Although pediatric residents do not typically participate in this elective, there are opportunities to work with Pediatric Rehabilitation Medicine fellows and PM&R residents. One week of the elective will be conducted at the National Rehabilitation Hospital which is on the same medical campus as CNHS. During all other weeks at CNHS, regular attendance at pediatric resident conferences will be encouraged. Attendance is required for the didactics in the PM&R Division.

Course Duration: 4 weeks (2 week electives provided with pre-approval only).

Evaluation Method: Clinical evaluation.

PED 405 Pediatric Emergency Medicine

Fulfills Emergency Medicine requirement

The student will work in a busy urban pediatric emergency department and level 1 Trauma Center staffed by full-time pediatric emergency attendings and fellows. The goals of the rotation include the development of skills necessary to rapidly assess and treat the ill or injured child. Students will be exposed to and gain skills in a variety of emergency procedures in children. Participation in weekly emergency conferences and monthly ED Grand Rounds will be expected. Topics include splinting, wound management and a variety of ED related medical discussions. A variety of shifts over the course of 24 hours and weekends are required. This elective provides a close working relationship with pediatric residents during their required inpatient ward month. Many students find it difficult to attend noon conference or morning report while on the rotation.

Course Duration: 4 weeks

Evaluation Method: Clinical evaluation and a power point presentation.

PED 407 Pediatric Healthy Generations - Teen Parent Program

Healthy Generations at Children's National is a "Teen-Tot" clinic offering medical care and comprehensive social work and mental health services for Teen Parents and their Children. Students will have the opportunity to assist in evaluating patients in the multi-disciplinary Generations medical clinic, providing preventative well child care, anticipatory guidance, as well as providing medical care for adolescent parents to include routine gynecological care, STD testing and counseling, and contraceptive care. Students will have the opportunity to work with members of the multi-disciplinary case-management team to learn about community resources available to support adolescent parents as well as accompany team-members on community based visits. No weekends or call. Although residents do not typically participate in this elective, students will have an opportunity to interact with them during resident conferences.

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) evaluations. Students will also be encouraged to complete a project within the Generations program.

PED 408 Breastfeeding Medicine

This elective is an introduction to breastfeeding medicine. Students spend the majority of their time in outpatient and inpatient lactation clinics in the DC Metropolitan area; however, students will also participate in in-home consults as well. Additional education is provided through didactic sessions and independent study. Students must provide vaccine records (including flu if seasonally appropriate), and proof of an annual physical and tuberculosis screening done within 12 months of rotation start date. Required forms and records must be provided 2 weeks prior to start date. As many of the clinics and experiences will be off of the Children's National campus, personal transportation is required. No weekends or call. Approximately 25% of the clinical experiences may provide exposure to pediatric residents participating in their continuity clinic or NICU / well-baby nursery rotation. Many students find it difficult to attend noon conference or morning report while on the rotation.

Course Duration: 2 weeks

Evaluation method: Clinical evaluation; online exam

A car is required for this elective

PED 409 Pediatric Hospitalist Consult Service (HELP TEAM)

Elective offers an opportunity to learn how to approach a medically complex pediatric patient: to review and critically assess the medical record and history and to evaluate both acute and chronic medical care issues. Depending on the student's interests, additional elements could include: pediatric palliative care, outpatient follow-up of the medically complex child, and/or perioperative assessment and care of the medically complex surgical patient. The student will develop management care plans that address medical problems, social issues, and case management concerns that may impact a child's care. The student will work directly with the Hospitalist Attendings and work closely with case managers and social workers. No weekends or call. Although residents do not typically participate in this elective, students will have an opportunity to interact with them during resident conferences.

Course Duration: 2-4 weeks

Evaluation Method: Clinical evaluation

PED 410 Pediatric Orthopaedic Surgery

This elective course presents an opportunity for 4th-year medical students to learn the nature and scope of pediatric orthopaedic surgery. Students will be active members of the orthopaedic service participating in morning conferences, lectures, preoperative conference, clinic and surgical procedures. In addition, there are formal and informal sessions focused just on students. These will be didactic lectures, teaching rounds and practical workshops on splinting and casting. All students are required to prepare a ten-minute presentation on a pediatric orthopaedic topic during the rotation. One night-call is expected every 2 weeks. No weekends are required. The students work closely with the orthopaedic (not pediatric) residents and all conferences are orthopedic in nature. No additional travel will be required as all experiences take place at Children's National.

Course Duration: 2 or 4 weeks.

Evaluation Method: Clinical evaluation and presentation performance.

Ped 411 Advanced Pediatric Dermatology**Prerequisite course, CV, and letter of interest statement required**

This elective course presents an opportunity for 4th-year medical students to learn the nature and scope of pediatric dermatology. Students will be active members of the Dermatology Service, participating in out-patient clinic and in-patient consultation rounds. Students will attend formal dermatology didactic conferences, lectures, and Grand Rounds. This rotation is designed in particular for medical students who plan a career in Pediatrics. You will learn about common pediatric skin conditions as well as complex pediatric concerns, such as congenital, infectious, parasitic, tumorous, and secondary disorders caused by underlying systemic conditions. No Dermatology prerequisites. No weekends or call. The students will mostly interact with Dermatology Residents. There may be limited opportunities to work with Children's National Pediatric Residents who are also enrolled in the elective. Most conferences will be dermatologic in nature although there may be limited opportunities to attend general pediatric conferences on the 2 days at Children's. Personal transportation is required to attend clinics in Spring Valley, Georgetown & Children's.

Course Duration: 2 or 4 weeks from January thru June.

Evaluation Method: Subjective evaluations based on clinical examination skills, charting, rapport with patients, teamwork, inquisitiveness, fund of knowledge, and ability to acquire skills and knowledge. 10-minute presentation; Clinical photograph examination; Written examination; Scholarly endeavors (such as preparation of a case report for publication).

PHARMACOLOGY

| Course | Course Title | Course Director | Contact for Course Information | Location | Phone | Fax | Email |
|-----------|--------------------------|---------------------------|--------------------------------|---------------|----------|----------|-------------|
| *PHAR 501 | Readings in Pharmacology | Vincent Chiappinelli, PhD | Vincent Chiappinelli, PhD | Ross Hall 640 | 994-3541 | 994-2870 | vac@gwu.edu |

**Indicates a course which may be taken for a two-week duration*

PHAR 501 Readings in Pharmacology*Offered in weeks 12-25 and 29-40 only**

Readings in the pharmacological literature; discussions and preparation of a report. Students work with a member of the Department of Pharmacology & Physiology on such topics as chemical dependencies, psychopharmacology, pain management, chemotherapy, cardiovascular drugs, OTC drugs, or other topics of mutual interest. This course must be pre-arranged with faculty member and requires early contact with Dr. Chiappinelli to make such arrangements. Student is required to read copy of guidelines for Pharmacy 501.

Report: Contact Course Director for Information – Course must be pre-arranged with Dr. Chiappinelli.

Course Duration: 2 or 4 weeks

Evaluation Method: Paper

PSYCHIATRY

| Course | Course Title | Course Director | Contact for Course Information | Location | Phone | Fax | Email |
|-----------|---|-----------------------|---------------------------------|---------------|-------------------------|------------|---|
| PCHI 302 | 3rd Year Psychiatry Clerkship | Julia Frank, MD | Shaira Morales | 2120 L St 600 | 2/741-2871 | 2/741-2809 | smorales@mfa.gwu.edu jfrank@mfa.gwu.edu |
| PCHI 379 | Inpatient Psychiatry Acting Internship | Navid Rashid, MD | Dr. Frank | NVMHI | 2/741-2865 | 2/741-2809 | Navid.Rashid@dbhds.virginia.gov jfrank@mfa.gwu.edu |
| PCHI 381 | Inpatient Psychiatry Acting Internship | Lorenzo Norris, MD | Dr. Frank | GW Hospital | 2/741-2865 | 2/741-2809 | jfrank@mfa.gwu.edu |
| PCHI 382 | Psychiatric Consultation Liaison Service | Sermak (Sam)Lolak, MD | Dr. Norris Dr. Frank | GW Hospital | 2/741-2865 | 2/741-2809 | slolak@mfa.gwu.edu jfrank@mfa.gwu.edu |
| PCHI 383 | Forensic Psychiatry | Eindra Khinkhin, MD | Dr. Khinkhin or Dr. Frank | 2120 L St 600 | 2/741-2865 | n/a | jfrank@mfa.gwu.edu ekhinkhin@mfa.gwu.edu |
| PCHI 388 | Child and Adolescent Psychiatry Acting internship | Dr. Wendell Wu | Dr. Wu Dr. Frank | CNHS | 210-885-8787 2/741-2865 | n/a | www@childrensnational.org jfrank@mfa.gwu.edu |
| *PCHI 409 | Independent Studies | Julia Frank, MD | Dr. Frank | ACC 8-408 | 2/741-2865 | 2/741-2809 | jfrank@mfa.gwu.edu |

**Indicates a course which may be taken for a two-week duration*

PCHI 379 Inpatient Psychiatry Advanced Internship

Student performs as an acting intern on one of the inpatient psychiatric teams at the Northern Virginia Mental Health Institute (NVMHI) in Fairfax Virginia. The student is expected to have prior psychiatry clerkship experience. NVMHI is a 114 bed state psychiatric hospital that has an acute treatment unit, two progressive treatment wards, an on-site rehabilitation program, and, in addition, is a training site for GW Department of Psychiatry residents. Students will have exposure to patients with acute psychiatric and substance abuse disorders as well as patients with severe and persistent mental illness. They will attend weekly didactics with PGYII residents. Students must pay NVMHI directly in advance for a background check (\$37) and a urine drug screen on the first day (\$28) (fees mandated by the state of Virginia). While the hospital is accessible by bus, parking is free.

Report: NVMHI Front Desk – Page Dr. Rashid

Evaluation Method: Clinical (subjective) evaluation.

PCHI 381 Inpatient Psychiatry Advanced Internship

The student performs as an acting intern on the University Hospital's inpatient psychiatry service, treating patients with acute psychiatric disorders, and/or combined medical and psychiatric disorders. The student is expected to have prior psychiatry and internal medicine clerkship experience. He/she will have the primary responsibility, acting directly under the attending, for the evaluation and treatment of assigned psychiatric inpatients from admission to discharge. Other responsibilities may include supervision and teaching of third year medical students during their clerkship, attendance at grand rounds and other resident didactics. Required written reports will include daily progress notes and discharge summaries. Elective papers such as

literature reviews or full case reports with discussion may be submitted by the student to augment his/her experience. Additional faculty: Department staff.

Report: GW Hospital – 6 South, *contact Ms Laquita Beale in advance to complete computer training and get a hospital badge*

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

PCHI 382 Psychiatric Consultation-Liaison Service

Student must have completed a psychiatry, internal medicine, surgery and ob-gyn clerkships. Student performs as an acting intern on the Consultation-Liaison Service in the Department of Psychiatry. The student will have the opportunity to work with specific medical and surgical departments that have developed formal liaison relationships with the Psychiatry department and with third year psychiatry residents. CL AIs also attend residency didactic seminars. AIs may also have the opportunity to spend an afternoon a week in the five trimesters perinatal mental health clinic. Faculty Course Instructors: Carol Perez, MD. and Lorenzo Norris, MD. For course registration contact Dr. Frank, jfrank@mfa.gwu.edu

Report: GWUH 6S, 6 South, *contact Ms Laquita Beale in advance to complete computer training and get a hospital badge*

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation

PCHI 383 Forensic Psychiatry 4 weeks

Students will work with Dr. Eindra Khinkhin in conducting forensic evaluations, assessing issues of competency, responsibility, or other forensic topics. They also have the opportunity to conduct supervised evaluations of refugee applicants seeking mental health documentation supporting their case for asylum, in conjunction with Dr. Frank. The student will also be expected to review literature, collaborate on publishable papers or presentations, and contribute to legal affidavits. At least one extensive written report on a particular topic is expected by the end of the elective.

PCHI 387 Psychiatry Research Elective 2-8 weeks withdrawn, 2014-2015

History of Medicine Research Elective (2-4 weeks). This intensive elective provides an in-depth case-study approach to the history of medicine in the nineteenth and twentieth centuries. Students will become familiar with primary sources in the history of medicine and readings will be tailored to the student's particular areas of interest. It will be expected that the student will have a topical research interest that will be ongoing during the course and will result in development of an original contribution to the field by the end of the rotation.

Faculty: Amir Afkhami, MD 202-741-2900 aafkhami@mfa.gwu.edu

PCHI 388 Child and Adolescent Psychiatry

Student must have completed a psychiatry clerkship. Student performs an acting-internship in evaluation and treatment of child and adolescent inpatients and their families. Individualized program by arrangement. Actual assignments based on student - preference and prior experience, within limits of feasibility for elective period involved. Additional faculty includes Drs. Robb, Dr. Salpekar and Dr. Joshi.

Report: Contact Course Director, Dr. Wendell Wu wwu@childrensnational.org

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation; case description and presentation.

PCHI 390-393 Extramural Psychiatry Elective

The department may permit students to spend elective periods at other institutions. Information on electives at some other medical schools is available from Dr. Julia Frank (jfrank@mfa.gwu.edu). She also has information on an HIV psychiatry elective given in September under the sponsorship of the American Psychiatric Association. Students must apply and be accepted by another school's or organization's elective to receive credit for this course. Available to GW students only.

PCHI 409 Psychiatry Independent Studies 2-4 weeks

Various faculty of the department of psychiatry at the MFA and at CNHS are available to mentor students who wish to do independent studies. Students should contact Dr. Julia Frank 202- 741-2865 jfrank@mfa.gwu.edu, to be matched with faculty that share their interest in a particular area of research or practice. Among the available topics are: International Psychiatric Public Policy or History of Psychiatry (with Dr. Amir Afkhami). Several other faculty members with special interests in international psychiatry (Dr. James Griffith, Dr. Peter Polatin, and Dr. Allen Dyer) may be able to mentor a fourth year student as well. Students interested in the care of refugees and applicants for asylum may ask to be placed two days a week at a clinic in Northern Virginia and to collaborate on asylum evaluations done in the department.

RADIOLOGY

| Course | Course Title | Course Director | Contact for Course Information | Location | Phone | Fax | Email |
|----------|-----------------------------------|----------------------|--------------------------------|-------------------------------|----------|----------|---|
| *RAD 381 | Vascular Interventional Radiology | Albert Chun, MD | April Cosper | GW Hospital MFA Suite, G 2092 | 715-4393 | 715-4380 | acosper@mfa.gwu.edu |
| >RAD 383 | Clinical Radiology | Jocelyn Rapelyea, MD | Karen Hatcher | ACC - DC level | 741-3003 | 741-3011 | jrapelyea@mfa.gwu.edu khatcher@mfa.gwu.edu |
| RAD 390 | Extramural Radiology | Jocelyn Rapelyea, MD | Karen Hatcher | ACC - DC level | 741-3003 | 741-3011 | jrapelyea@mfa.gwu.edu khatcher@mfa.gwu.edu |
| RAD 404 | GI/GU Radiology | Jocelyn Rapelyea, MD | Karen Hatcher | ACC - DC level | 741-3003 | 741-3011 | jrapelyea@mfa.gwu.edu khatcher@mfa.gwu.edu |
| RAD 405 | Acute/ER Radiology | Jocelyn Rapelyea, MD | Karen Hatcher | ACC - DC level | 741-3003 | 741-3011 | jrapelyea@mfa.gwu.edu khatcher@mfa.gwu.edu |
| RAD 406 | Trauma/Bone Radiology | Jocelyn Rapelyea, MD | Karen Hatcher | ACC - DC level | 741-3003 | 741-3011 | jrapelyea@mfa.gwu.edu khatcher@mfa.gwu.edu |
| RAD 407 | Women's Imaging | Jocelyn Rapelyea, MD | Karen Hatcher | ACC - DC level | 741-3003 | 741-3011 | jrapelyea@mfa.gwu.edu khatcher@mfa.gwu.edu |

**Indicates a course which may be taken for a two-week duration*

> Indicates a course which must be reserved by arrangement with the Course Director

*RAD 381 Vascular Interventional Radiology

A two week subspecialty radiology elective focusing on vascular and interventional radiology. The goals are to orient the student to the vascular and interventional radiology section and to become familiar with the full variety of special procedures which are performed by this section. The student will take an active role in working up the patients, performing and following patients post-procedure. Faculty includes: Anthony Venbrux, MD, Shawn Sarin, MD, Albert Chun, MD and Andrew Akman, MD

Report: GW Hospital, 2nd floor, Interventional Radiology Control Room (Rm 2); Cardiac Cath Lab Area - 7:30 am

Course Duration: 2 weeks

>RAD 383 Clinical Radiology

Offered weeks 2-5, 6-9 and 10-13 only

Space must be reserved with the dept. prior to the match.

Students will be assigned to rotate and observe various sections in the University Hospital's Department of Radiology. The department considers this a basic course in radiology and urges students to use this for their introductory clinical radiology course. Additional faculty includes the full departmental faculty.

Report: ACC - DC level Radiology section; 8:00am

Course Duration: 4 weeks (by arrangement with the Radiology Dept.)

Evaluation Method: Seminar performance; Clinical (subjective) evaluation; written examination, paper/presentation is optional but required for consideration for the Honors grade.

RAD 390-392 Extramural Radiology Elective

Participation in a radiology program at another medical center, by signature approval of the course director. Available to GW students only.

RAD 404 GI/GU Radiology**Offered weeks 14 -17; 18-21; 28-43 only**

A one month course focusing on aspects of gastro-intestinal and genito-urinary radiology. This is subspecialty training in radiological diagnosis to prepare students interested in a career path involving the aforementioned areas. Students will rotate in GI, ultrasound, CT and interventional.

Report: ACC - DC level; 8:00am

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation, seminar performance, written examination. Paper/presentation - optional for Honors grade consideration.

RAD 405 Acute/ER Radiology**Offered weeks 14 -17; 18-21; 28-43 only**

A full month in radiology with special dedication to the aspects of Acute Radiology. This subspecialty training in radiological diagnosis will prepare students for a career path involving the aforementioned areas. Students will rotate in Chest, CT, Bone and Neuro Radiology.

Report: ACC DC level; 8:00am

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation, seminar performance, written examination. Paper/presentation - optional for Honors grade consideration.

RAD 406 Trauma/Bone Radiology**Offered weeks 14 -17; 18-21; 28-43 only**

A full month in radiology with special dedication to the aspects of Trauma/Bone Radiology. This subspecialty training in radiological diagnosis will prepare students for a career path involving the aforementioned areas. Students will rotate in Bone, Spine and Neuro Radiology.

Report: ACC DC level; 8:00am

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation, written examination. Paper/presentation - optional for Honors grade consideration.

RAD 407 Women's Imaging**Offered weeks 14 -17; 18-21; 28-43 only**

A full month in radiology with special dedication to the aspects of Women's Health Radiology. This subspecialty training in radiological diagnosis will prepare students for a career path involving the aforementioned areas. Students will rotate in Ultrasound, Mammography and Chest Radiology.

Report: ACC DC level; 8:00am

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation, seminar performance, written examination. Paper/presentation - optional for Honors grade consideration

SURGERY

| Course | Course Title | Course Director | Contact for Course Information | Location | Phone | Fax | Email |
|--------------|--|------------------------|--------------------------------|---|--------------|--------------|---|
| SURG 303 | 3rd Yr Surgery Clerkship | Khashayar Vaziri, MD | Jessica Ruiz | ACC 6B-402 | 741-3157 | 741-3285 | jruiz@mfa.gwu.edu kvaziri@mfa.gwu.edu |
| *>SURG 353 | Otolaryngology – Head/Neck Surgery | Philip Zapanta, MD | Jessica Ruiz | ACC Voice Treatment Center | 741-3157 | 741-3285 | pzapanta@mfa.gwu.edu jruiz@mfa.gwu.edu |
| *SURG 354 | Otolaryngology – Head/Neck Surgery | Michael Nathan, MD | Dr. Nathan | Private Office 6355 Walker Ln. Alexandria, VA | 7/313-0373 | n/a | n/a |
| *SURG 355 | Otolaryngology – Head/Neck Surgery | David Bianchi, MD | Pat Cavey Jessica Ruiz | Suburban & Holy Cross Hospital | 301-754-7236 | 301-236-5357 | dbianchi@aol.com jruiz@mfa.gwu.edu caveyp@holycrosshealth.org |
| *SURG 358 | Tropical Otolaryngology | Adam Shapiro, MD | Dr. Shapiro | St Thomas, VI | n/a | n/a | See course description for details and address. |
| SURG 378 | Intensive Care Unit | Arthur St.Andre, MD | Lashawn Williams | WHC | 877-7259 | 877-7258 | Arthur.St.Andre@Medstar.net Lashawn.Williams@medstar.net |
| >SURG 380 | General Surgery and Surgical Oncology | Paul Lin, MD | Jessica Ruiz | ACC 6B-402 | 741-3157 | 741-3285 | plin@mfa.gwu.edu jruiz@mfa.gwu.edu |
| >SURG 382 | Laparoscopic/ Colorectal Surgery | Vincent Obias, MD | Jessica Ruiz | ACC 6B-402 | 741-3157 | 741-3285 | vobias@mfa.gwu.edu jruiz@mfa.gwu.edu |
| SURG 383 | General Surgery, Breast & Cardiothoracic Surgery (Team Giordano) | Juliet Lee | Jessica Ruiz | ACC 6B-402 | 741-3157 | 741-3285 | jruiz@mfa.gwu.edu |
| *SURG 385 | Plastic/ Reconstructive Surgery | Elizabeth Marshall, MD | Jessica Ruiz | ACC 6B-402 | 741-3157 | 741-3285 | emarshall@mfa.gwu.edu jruiz@mfa.gwu.edu |
| SURG 388 | Vascular Surgery | Bao-Ngoc Nguyen, MD | Jessica Ruiz | ACC 6B-402 | 741-3157 | 741-3285 | bnnguyen@mfa.gwu.edu jruiz@mfa.gwu.edu |
| SURG 390-395 | Extramural Surgery | Juliet Lee, MD | Jessica Ruiz | ACC 6B-402 | 741-3157 | 741-3285 | jruiz@mfa.gwu.edu Jclee@mfa.gwu.edu |
| >SURG 400 | General Surgery and Trauma | Babak Sarani, MD | Jessica Ruiz | ACC 6B-402 | 741-3157 | 741-3285 | jruiz@mfa.gwu.edu bsarani@mfa.gwu.edu |
| SURG 402 | Burns | Marion Jordan, MD | Dr. Jordan | WHC | 877-7347 | 877-7302 | n/a |
| *PED 375 | Pediatric Surgery | Andrea Badillo, MD | Jessica Ruiz | n/a | 741-3157 | 741-3285 | jruiz@mfa.gwu.edu |
| PED 401 | Pediatric Otolaryngology | Brian Reilly | Jessica Ruiz | ACC 6B-402 | 741-3157 | 741-3285 | jruiz@mfa.gwu.edu |

*Indicates a course which may be taken for a two-week duration

> Indicates a course which must be reserved by arrangement with the Course Director

***>SURG 353 Otolaryngology/Head and Neck Surgery**

Reservation required in weeks 2-13

Space must be reserved with the dept. prior to the lottery.

Students will participate in the work-up and care of out-patients and in-patients. Students will participate in surgery and ER consultations. Night call is voluntary. Additional faculty includes: Drs. Steven Bielowicz, Nader Sadeghi, Philip Zapanta, Ameet Singh, Houtan Chaboki and Tom Troost.

Report: Contact Course Coordinator, Jessica Ruiz

Course Duration: 2 or 4 weeks (Offered July-September [weeks 2-13] by arrangement with the surgery dept.; open enrollment weeks 14-45)

Evaluation Method: Clinical (subjective) evaluation; Seminar performance.

***SURG 354 Otolaryngology/Head and Neck Surgery**

A clinical elective covering all aspects of ear, nose and throat disorders, including otolaryngologic allergy, audiology, head and neck cancer, and facial plastic surgery. Opportunity to participate in office, hospital, and operating room activities.

Report: Contact Course Director

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) evaluations.

***SURG 355 Otolaryngology/Head and Neck Surgery**

This course will provide an exposure to all aspects of Otolaryngology - Head and Neck Surgery in a private practice setting. Students will work intimately with Dr. David Bianchi and partners along with senior otolaryngology residents in suburban, Maryland. Students will be exposed to operative care at Suburban and Holy Cross Hospitals. Additional faculty include: Dr. Ken Hauck, Dr. Valerie Asher, Dr. Brian Driscoll, Jeff Robin, PA-C/OTO.

Report: Contact Pat Cavey - 301 754-7236

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) evaluations, seminar performance, 20-30 minute presentation.

***SURG358 Tropical Otolaryngology**

A unique opportunity to be involved with the medical and surgical care of diseases of the ear, nose and throat. All aspects of clinical otolaryngology are covered including audiology, vestibular disorders, head and neck surgery and pediatric ENT. Housing may be available.

For information contact Adam Shapiro, MD, 9150 Estate Thomas, Suite 111, St. Thomas, VI

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

SURG 378 Intensive Care Unit

This course, highly rated by students, is an introduction to the management of the medical and surgical problems of acutely ill surgical patients, including cases involving trauma; neurosurgery; cardiovascular-thoracic, abdominal, and orthopaedic surgery. Excellent rotation for students interested in medicine or surgery. Over 200 patients per month are treated for vital organ dysfunction secondary to many surgical pathologies. (The student will participate in patient evaluation, presentation and management including intensive care procedures.) Additional faculty of internal medicine critical care physicians include: Drs. R. DiPhillips, G. Sample, M. Hockstein, Brian Lee, Patrick Cullinan, Molly Sarumi. Night call 2-3 times in 4 weeks. Washington Hospital Center.

Report: Surgical Critical Care 4B42

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

>SURG 380 General Surgery and Surgical Oncology**Reservation required in weeks 2-13****Space must be reserved with the dept. prior to the lottery.**

Active participation in both inpatient and outpatient surgical care. Assignment to Dr. Lin's Team Adkins. Significant time in operating room, and on the wards managing patients. Emphasis on complex gastrointestinal, oncologic diseases and hepatobiliary, pancreatic and bariatric surgery. Additional faculty: Dr. Bruce Abell, Dr. Khashayar Vazir and Dr. Lynn Abell. Night call every fourth night.

Report: Contact Course Coordinator Jessica Ruiz for information.

Course Duration: 4 weeks (Offered July-September [weeks 2-13] by arrangement with the surgery dept; open enrollment weeks 14-45)

Evaluation Method: Clinical (subjective) evaluation.

>SURG 382 Laparoscopic and Colorectal Surgery**Reservation required in weeks 2-13****Space must be reserved with the dept. prior to the lottery.**

Emphasis on complex colorectal and laparoscopic surgery. Night call every fourth night. Team Blades Additional faculty: Vincent Obias MD, Samir Agarwal, MD,, Fred Brody, MD.

Report: Contact Course Coordinator

Course Duration: 4 weeks (Offered July-September [weeks 2-13] by arrangement with the Surgery Department; open enrollment weeks 14-45)

Evaluation Method: Clinical (subjective) evaluation.

SURG 385 Plastic and Reconstructive Surgery*Reservation required in weeks 2-13****Space must be reserved with the dept. prior to the lottery.**

This course includes experience in the full spectrum of plastic and reconstructive surgery in adult age groups, including congenital anomalies, cosmetic surgery, neoplasms of the head and neck, facial trauma, benign and malignant skin lesions, hand surgery, burns, microsurgery, breast surgery. Responsibilities in the operating room, at the bedside and in the clinic are combined with participation in a busy conference schedule and daily contact with all of the subspecialty resident and faculty members. Additional faculty: Dr. Michael Olding and Dr. Joanne Lenert.

Report: Contact the course coordinator

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

SURG 390-395 Extramural Surgery Elective

The department permits students to spend one or more elective period at other institutions. Students must have the approval of the chairman of the department. Available to GW students only.

Evaluation Method: Variable.

>SURG 400 Trauma**Reservation required in weeks 2-13****Space must be reserved with the dept. prior to the lottery.**

Fourth year acting internship in general surgery with focus on general abdominal surgery and comprehensive care of the traumatically injured patient. Significant time spent in the operating room, ICU, and wards. Individual attention with attending and senior residents. Focus on independent learning and management of ward and ICU patients, supervision of third year medical students. Call - every 4 nights. Team DePalma Additional Faculty: James Dunne, MD.

Report: GW Hospital - AM Rounds - Contact the course coordinator

Course Duration: 4 weeks (Offered July-September [weeks 2-13] by arrangement with the surgery dept; open enrollment weeks 14-45)

Evaluation Method: Clinical (subjective) evaluations.

SURG 388 Vascular Surgery

Fourth year acting internship in vascular surgery with focus vascular disease. Significant time spent in the operating room, ICU, and wards. Individual attention with attending and senior residents. Focus on independent learning and management of ward and ICU patients, supervision of third year medical students. Call - every 4 nights. Additional Faculty: Drs. Neville, Babrowicz, Arora, Rahbar and Nguyen.

Course Duration: 4 weeks (Offered July-September [weeks 2-13] by arrangement with the surgery dept; open enrollment weeks 14-45)

Evaluation Method: Clinical (subjective) evaluations.

SURG 401 Peripheral Vascular Surgery

The goal of the course is to introduce students to the physiologic basis for an approach to peripheral vascular disease. Students will initially be assigned to the chief vascular technician in the recently updated non-invasive laboratory. After learning modern diagnostic techniques (to include observations of contrast arteriography) the student will be expected to follow the patient once admitted, through surgery, and into the post-operative period. Students will have the opportunity to participate in the course director's clinic as well. Veterans Administration Medical Center.

Report: Contact Course Director

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation, seminar performance.

SURG 402 Burns

Participation in a 10-bed surgical burn intensive care unit with an associated 10-bed rehab unit for recuperating burn patients. Two full-time attendings. One hundred major and 200 minor/rehab/reconstructive patients admitted to the Burn Center every year. Additional faculty includes: James C. Jeng, M.D. Washington Hospital Center.

Report: Contact Course Director

Course Duration: 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

***PED 375 Pediatric Surgery**

Students will participate in a closely supervised surgical service for infants and children, including newborn surgery and surgery for trauma and neoplasms. This elective will partially fulfill the surgical specialty requirements. The elective may be taken for two weeks; however students are encouraged to consider a four-week rotation.

Contact course coordinator, Jessica Ruiz for more information: jruiz@mfa.gwu.edu or 202-741-3157.

Course Duration: 2 or 4 weeks.

Evaluation Method: Clinical (subjective) evaluation.

PED 401 Pediatric Otolaryngology

Students will have exposure to otoscopic examination of infants and children; understand the management of common middle ear disorders; and learn evaluation of stridor and airway compromise.

Contact course coordinator, Jessica Ruiz for more information: jruiz@mfa.gwu.edu or 202-741-3157.

Course Duration: 2 or 4 weeks.

Evaluation Method: Clinical (subjective) evaluation.

TRACK PROGRAM REQUIREMENTS

IDIS 350: International Medical Experience in Third World Service

Medical care in the Third World involves resourceful application of limited resources to often advanced diseases, including some exotic tropical disorders affecting large numbers of very needy people. Health practices of care and prevention are experienced in supervised settings and in challenging environments. Occasional night call as appropriate, approximately every third night. Additional faculty will include John F. Williams, M.D., and others. For additional information see Web Page - <http://www.gwu.edu/~int med.ed>.

Report: By arrangement with the Course Director.

Course Duration: 4 - 12 weeks

Evaluation Method: Clinical (subjective) evaluations; paper; report summarizing experience; seminar performance.

Medical Education Leadership: IDIS 351

TALKS: Teaching and Learning Knowledge and Skills - *The Clinician as Medical Educator*

This senior elective will develop the participants' teaching skills in the clinical setting. Principles of adult learning theory, effective teaching techniques and evaluation of performance, including effective methods of giving feedback to trainees, are presented in interactive workshops. There is emphasis upon how to teach clinical skills effectively. This theory is put into practice by the participantS who serve as instructors and evaluations for freshman or sophomore students in physical diagnosis and interviewing. By serving as teacher and evaluator, participantS enhance their own clinical skills.

The course is credited as a four week elective, although required activities take place episodically during the fourth year. Several alternate dates for participation in required activities are offered. participants are evaluated on the basis of attendance at all required activities video reviews of their teaching, and feedback from faculty and from their students. Faculty include: Drs. Benjamin Blatt, Larrie Greenberg, Charles Macri, and RobertEnglander. Workshops are in the evening. Four (4) week credit for participation in year-long course.

Evaluation Method: Clinical (subjective) evaluations; Workshops performance

Course Directors: Benjamin Blatt, MD; Larrie Greenberg, MD

Contact Information: jblatt@gwu.edu; lgreenbe@gwu.edu

Integrative Medicine Track: IDIS 353

Integrative Complementary Medicine

Students will learn the definition, the philosophy and the practice principles of integrative medicine. The application of these principles will be demonstrated with a wide variety of patients who bring with them complex medical conditions. These diagnostic and management plans may include laboratory testing and treatment modalities not used in conventional medicine but are always based on good science and or long-standing traditions of practice. The students are encouraged to develop critical thinking, challenge what is being taught and incorporate what is appropriate for each individual student.

The Center is staffed with experts and experienced practitioners in their own fields and they are eager to share their knowledge with interested students. Students will often have a first-hand experience in some of the treatment modalities, e.g. Reiki, when there is such an opportunity. At the least, students will observe CAM (Complementary and Alternative Medicine) practices, such as, naturopathic medicine, acupuncture, herbal and homeopathic medicine, manual manipulation-chiropractic, hypnotherapy, and nutritional counseling. They will also observe how the members of the Center staff work together as an integrative team in the care of their patients.

There are weekly staff meetings where there are guest lecturers, presentations by CIMstaff, case reviews and journal reviews. Students will have weekly meetings with Dr. Koganto review current journal articles. Students are also encouraged to write a short paper on a topic of their choice in integrative medicine. Interested students are strongly urged to visit the Center website, www.IntegrativeMedicineDC.com, to learn more about the Center, its staff and its programs.

Course Duration: (typically 2-4 weeks)

Course Directors: Mikhail Kogan, MD

Contact Information: koganmik@gmail.com

Community Health Track: IDIS 354

Outpatient student run clinic experience at Bread for the City medical clinic. The clinics provide primary care to low income DC residents, regardless of their ability to pay. Students will be required to attend a minimum of twelve Tuesday evening sessions during the course of the year. In addition students will be expected to serve on a committee and/or review and update evaluation data, curriculum, training manuals or other special projects deemed necessary by the student steering committee. Enrollment in the elective is limited. Limited number of slots are available for 4th year students. .

Community Health Track students and/or with experience as volunteer with the GW Healing Clinic are given registration priority.

Course Duration: In schedule for 4 weeks, but it's a year-long course

Course Director: Lisa Alexander, P.A., Ed.D., M.P.H.; lmapa@gwu.edu

Evaluation Method: Clinical (subjective) evaluation; Special Project

Health Policy Track: IDIS 360 (Track Program Only)

1. Research electives are available with selected members of Department of Health Policy Faculty and policy placements are available at institutions in the Washington area.
2. Students may have the opportunity to enroll in public health courses through the School of Public Health and Health Services. These would be longitudinal experiences lasting either 7 or 14 weeks during the Fall and/or Spring.
3. Individual electives arranged by students with health policy mentors of their selection may be available.

Course Duration: Variable (typically 4 weeks)

Course Directors: Steven Davis, MD

Contact Information: stevenpatrickdavis@gmail.com

Evaluation Method: Clinical (subjective) evaluation

Emergency Management Track: IDIS 361 (Track Program Only)**OPTION A: 2-week IDIS EM 361 course:**

- Present to EMED 302 students during your emergency medicine rotation a 2 hour lecture on emergency management - to be precepted by Dr. Petinaux and/or EMS/Disaster Fellow
- Attend two GWUH Emergency Management Committee Meetings during your fourth year of medical school (takes place @ 1 pm on the fourth Monday of every month within the Administration Board Room on the ground floor). Students are expected to attend two out of 12 meetings.
- Provide proof of your completion of the ICS courses by the start of your Capstone course during your fourth year
- Write a referenced Emergency Management Topic Paper (be sure to connect with Dr. Petinaux regarding your options)
- This elective can be done asynchronously

OPTION B: 4-week IDIS EM 361 course:

- Present to EMED 302 students during your emergency medicine rotation a 2 hour lecture on emergency management - to be precepted by Dr. Petinaux and/or EMS/Disaster Fellow
- Attend two GWUH Emergency Management Committee Meetings during your fourth year of medical school (takes place @ 1 pm on the fourth Monday of every month within the Administration Board Room on the ground floor). Students are expected to attend 2 out of 12 meetings.
- Provide proof of your completion of the ICS courses by the start of your Capstone course during your fourth year
- Take a 4 week elective at an organization or work on a project in emergency management
- Write a 2 page paper on your elective experience
- This elective can NOT be done asynchronously

Course Director: Bruno Petinaux, MD

Contact Information: bpetinaux@mfa.gwu.edu

Evaluation Method: Subjective evaluation, Special project

Research Track Elective: IDIS 363 (Track Program only except by permission of instructor)

This senior elective will serve to further develop the participant's skills in clinical and/or translational research. Students must participate in a clinical or translational research project for a minimum of 4-weeks. Six to eight weeks is highly recommended. Due to the nature of clinical and translational research, it is expected that activities related to this elective may have begun with previous summer experiences (Gill / Health Sciences / other) or project and extend throughout the senior year. Students must identify a research mentor for their project and have a signed mentor agreement (to be provided). Students must receive approval of their elective in advance by the Track Directors. The participant is evaluated on the basis of attendance at all required activities as determined by the mentor, feedback from the mentor, and the preparation of a manuscript suitable for peer review in a scientific journal. Single case reports will not qualify; case series will qualify only with significant new knowledge for the field. This manuscript may also be used to satisfy the requirements for the POM IV scholarly project.

Evaluation Method: Mentor (subjective) evaluations; submission of paper

Course Directors: Naomi Luban, MD; Larissa May, MD

Contact Information: nluban@childrensnational.org, larissa@gwu.edu

IDIS 364: Child Health Advocacy

Course: Child Health Advocacy

Duration: 2 or 4 weeks

Dates: Offered throughout the year for either a two-week or four-week block. Check with the course director before scheduling.

Description: Each student will undertake a health policy project that will simulate the way a physician would advocate in the public policy arena. Working with the course director or another faculty member, the student will identify a health issue, propose a solution for the issue, determine how to enact the solution and take steps to advance the solution in the public policy arena. The student will use population, epidemiological and other data to describe the issue and evidence-based information to craft the solution. In addition, the student will attend health-related legislative hearings and meetings with government officials and relevant organizations.

Prerequisite: Permission of the course director

Course Director: Eric Rosenthal, MD, MPH

Medical Director, Municipal and Regional Affairs

Child Health Advocacy Institute

Children's National Health System

Environmental Health Track: IDIS 365

1. Students may participate in a clinical elective at an occupational health clinic in the US approved by the Course Director. This would be a minimum of 4 weeks. Potential sites can be viewed at <http://www.aoec.org/documents/directory/CLINICSHORTLIST.doc>
2. Students may participate in a research or community project for a minimum of 4 weeks. This can be a continuation of a past project or involvement of a new project. This may also be undertaken on a part-time basis over a longer period of time at the discretion of the Course Director. Students must submit their research project topic to the Course Director.
3. Students may be able to take a course offered in the Department of Environmental and Occupational Health in the GW School of Public Health & Health Services. These would be longitudinal experiences lasting either 7 or 14 weeks during the Fall and/or Spring.

Course Duration: 4 - 14 weeks

Course Director: Jerome Paulson, MD

Contact Information: Jpaulson@childrensnational.org

Evaluation: Clinical (subjective) examination, paper, seminar performance

Medical Humanities Track: Med 522

Narratives in and of Medicine

The purpose of this course is to view various aspects of medicine through the alternative lens of the humanities. Our goal will not be to come to definitive answers about the questions the texts raise, but to stimulate dialogue around a number of issues. Using term "narrative" in a broad sense to include fictional stories, essays, poems, graphic (comics) texts, and film, all of which tell us stories about medicine. We are using "medicine" in a broad sense as well to mean "the diagnosis and treatment of disease and the maintenance of health." Some of the texts will relate to "medicine" and "health" directly, and others will relate indirectly to medicine; however, it is hard to imagine any text that does not have something to do with health and/or disease in a physical, mental, or emotional sense. The readings may focus on interns, residents, practicing physicians, patients and their families, caretakers, and characters who are in none of those roles when we "meet" them but who offer important insights into the ways that people experience life. The readings are divided into categories that overlap and hopefully emphasize the complexity that any situation or story of an individual inevitably presents. Requirements: Attendance at all sessions*; a one-page, single-spaced reflection on the readings for each meeting; participation in discussion. *(Absences may be excused and make-up times arranged for those who have other medical-school related commitments).

Course Director: Linda Raphael, PhD

Contact Information: lraphael@gwu.edu

Global Health Track: IDIS 349, 352, or 370

***IDIS 349 International Medical and Surgical Missions**

Introduction: The following sites are available to 3rd and 4th year medical students who have completed the required two month rotations in the following areas: internal medicine; family practice; pediatrics; OB/GYN; surgery; and psychiatry. An application will be required and students must be in excellent academic standing. Medical missions range from one to two weeks and are based upon availability.

Course Duration: Minimum one week

Evaluation Method: Clinical (subjective) Evaluation; Reflection Paper

Course Designation: IDIS349

Course Title: INTL Medical Missions

Credits: 3 credit hours

Course Director: Huda Ayas, EdD

Course Coordinator: Rick James

Location: 2030 M Street NW, Suite #4063

P: 2/994-4844 F: 2/994-0074

hayas@gwu.edu or rjames@gwu.edu

IDIS 352 International Medical Systems

Introduction: The following sites are available to 3rd and 4th year medical students who have completed the required two month rotations in the following areas: internal medicine; family practice; pediatrics; OB/GYN; surgery; and psychiatry. An online application will be required and students must be in excellent academic standing. Rotations range from four to eight weeks and are based upon availability.

Course Duration: Minimum of four weeks

Evaluation Method: Clinical (subjective) Evaluation; Reflection Paper

Course Designation: IDIS352

Course Title: INTL MEDICAL SYSTEMS

Credits: 5 credit hours

Course Director: Huda Ayas, EdD

Course Coordinator: Rick James

Location: Ross 2030 M Street NW, Suite #4063

P: 2/994-4844 F: 2/994-0074

hayas@gwu.edu or rjames@gwu.edu

***IDIS 370 International Translational Research**

In collaboration with the Office of International Medicine Programs at GW, the University of San Pablo offers 4- to 8-week Translational Research Elective rotations to senior medical students in key specialty fields and medical disciplines at the Institute of Applied Molecular Medicine (IMMA). IMMA is a translational research facility devoted to human subjects research at the University of San Pablo-CEU and the Hospital of Madrid Scientific Foundation in Madrid (Spain). Please see listing of international rotation sites below for more on University of San Pablo.

Each rotation provides students with the opportunity to have direct experience in the study of patients enrolled in investigational protocols for diagnostic and therapeutic innovation with the help of experimental bioassays and biotechnologic product developments under the co-mentorship of clinical and preclinical medicine scientists and faculty. Participants learn fundamental principles of translational research within a two-sided research track, from bedside to bench and thereafter from bench to bedside. Please contact Office of International Medicine Programs for detailed course syllabus and application procedure.

Course Duration: 4 weeks or 8 weeks

Evaluation Method: Clinical/research Evaluation; Reflection Paper or other Academic research Project

Course Designation: IDIS 370

Course Title: INTL Translational Research

Credits: 5 credit hours

Course Directors: Huda Ayas, EdD and Fernando Vidal, MD

Course Coordinator: Rick James

Location: 2030 M Street NW, Suite #4063

P: 2/994-4844 F: 2/994-0074

hayas@gwu.edu or rjames@gwu.edu

UROLOGY

| Course | Course Title | Course Director | Contact for Course Information | Location | Phone | Fax | Email |
|--------------|--------------------|--------------------|--------------------------------|------------|----------|----------|---|
| *>UROL 302 | Clinical Urology | Thomas Jarrett, MD | Jessica Ruiz | ACC 6B-402 | 741-3157 | 741-3285 | jruiz@mfa.gwu.edu |
| *Ped 373 | Pediatric Urology | H. Gil Rushton MD | Jessica Ruiz | ACC 6B-402 | 741-3157 | 741-3285 | hrushton@childrensnational.org jruiz@mfa.gwu.edu |
| UROL 390-392 | Extramural Urology | Thomas Jarrett, MD | Jessica Ruiz | ACC 6B-402 | 741-3157 | 741-3285 | jruiz@mfa.gwu.edu tjarrett@mfa.gwu.edu |

* Indicates a course which may be taken for a two-week duration

> Indicates a course which must be reserved by arrangement with the Course Director

***>UROL 302 Clinical Urology**

Reservation required in weeks 2-13

Space must be reserved with the dept. prior to the lottery.

Observation of urologic conditions and procedures for diagnosis and treatment; radiologic and pathologic studies, endoscopy and surgery, collateral reading, weekly staff conference. Additional faculty: Dr. Thomas Jarrett, Dr. Harold Frazier, Dr. Michael Phillips, Dr. R. Andrawis, Dr. Compton Benjamin Dr. Hrant Semerjian, and Dr. Tiffany Sotelo. Students are to report to residents for orientation and assignments by 7:00am. Page the urology resident for first day instructions.

Report: GW Hospital, 5 North; 7:00am - Contact Course Coordinator, Jessica Ruiz 202 741-2157 or jen-gland@mfa.gwu.edu for further information.

Course Duration: 4 weeks (Offered July-September [weeks 2-13] by arrangement with the urology dept; open enrollment weeks 14-45)

Evaluation Method: Clinical (subjective) evaluation.

***PED 373 Pediatric Urology**

Students will be active participants and have the opportunity to initially evaluate patients in the Children's out-patient urology clinic. 90% of the diagnoses in the clinic will be conditions that would be typically discovered, evaluated, and often treated in the primary physician's office. Exposure will be provided in UTI management, obstructive uropathy, prenatal and postnatal hydronephrosis, voiding disorders, differentiating retractile and undescended testes, genital disorders, catheterization techniques and many other less common problems. OR time is optional. This course will fulfill the urology requirement, and can be elected in lieu of UROL 302. No night or weekend call. Additional faculty: Drs. Gil Rushton, A. Barry Belman, Naidaa Kalloo, Hans G. Pohl, and Scott Sparks

Report: CNHS, Floor 3.5 West Wing, Suite 600; 7:00am for orientation; Contact: Wilhelmina Bradford at wb-holmes@childrensnational.org or 202 476-5692

Course Duration: 2 or 4 weeks

Evaluation Method: Clinical (subjective) evaluation.

UROL 390-392 Extramural Elective in Urology

With permission, the student can participate in a (reviewed) urology clerkship in another medical center. Available to GW students only. Night call may be required.

Drop/Add Form for Schedule Changes

Form for changing the Year IV schedule after the semester deadline: The student named below is seeking to change his/her senior schedule after the final date listed in the "GW Student Senior Timetable." This 'contract' states that students can make no subsequent changes in the current semester schedule without written approval of the Course Director(s) and/or the Dean. Please fill out all the information below:

Students Name: _____ Today's Date: _____

Course to be Dropped

Dept/Course #: _____ Course Director: _____

Starting Week: _____ for _____ weeks Course Dates: _____ to _____

Reason: _____

*I agree to this change: ☐ Yes ☐ No

Course Director: _____ Date: _____

Signature Required

Course to be Added

Dept/Course #: _____ Course Director: _____

Starting Week: _____ for _____ weeks Course Dates: _____ to _____

Reason: _____

*I agree to this change: ☐ Yes ☐ No

Course Director: _____ Date: _____

Signature Required

***Faculty should be aware that if this change is inconvenient, displaces other students, or is otherwise unacceptable, the Dean's Office will fully support your decision to not grant permission for this late change.*

PERMISSION TO TAKE OFF-CAMPUS ELECTIVE

(Please Print Legibly)

Name: _____ Today's Date: _____

Name of Host Institution: _____

Course Title/Specialty: _____

Signature Approval Required by GW School of Medicine and Health Sciences Course Director:

*(*Course Director's Signature is Required *)*

Date of Course: from _____ to _____

Preceptor or Contact Name: _____

Preceptor or Contact Number: _____

How is this course listed in your schedule: _____
(i.e., MED 390, MED 391, PEDS 390, PEDS 391, etc)

Does this fulfill a requirement? _____

Which requirement? _____

How can we reach you while you are away?

Email address: _____

Cell phone number: _____

Note: When this information is completed, signed, and received by the Dean's Office prior to the beginning date of the elective, credit will be registered and GW malpractice insurance will be in effect.

School of Medicine & Health Sciences

THE GEORGE WASHINGTON UNIVERSITY
