APPLIED HEALTH BEHAVIOR RESEARCH PROGRAM

The graduate programs in Applied Health Behavior Research (AHBR) are housed in the Clinical Research Training Center (CRTC) in the Wohl Clinic.

Master of Science in AHBR
A 33-credit multidisciplinary, skills-based program designed for working professionals pursuing studies on a part-time basis, and full-time graduate students. A one-year research intensive option can be completed in three semesters. The AHBR program focuses on developing the applied skills needed to manage health behavior programs and research projects in academic, clinical, and community settings. Two concentrations are offered:
- Health Behavior Research (HBR)
- HBR Research Intensive Option
- Health Education, Program Planning & Evaluation (HEPPE)
- Health Behavior Research (HBR)
- HBR Research Intensive Option
- Health Education, Program Planning & Evaluation (HEPPE)
There is no thesis or practicum requirement for this program.

Graduate Certificate in Health Behavior Planning and Evaluation
A 15-credit hour program focused on the key applied and theoretical concepts in health behavior, and processes for managing program development and evaluation activities in clinical settings.

Registration Instructions for students in AHBR graduate programs
The AHBR Project Manager manages student registration. Enrollment is subject to space available. Priority registration for degree-seeking students begins April 1, 2016.

Registration Instructions for Students Outside of AHBR Programs
Before registering, current Washington University students must obtain appropriate consent from their division/department. Students outside of the AHBR program must have permission from the AHBR Program to register. Please contact the Project Manager in the CRTC prior to registration.

Fall 2016 Academic Calendar
Fall courses begin on August 29, 2016. Registration opens on April 1, 2016. The last day to drop a class and receive a full refund is September 9, 2016.

AHBR Program Leadership
Arun Deshpande, PhD, MPH, Program Director
The Division of Biostatistics offers a master’s degree in Biostatistics and a certificate as well as post-doctoral master’s degree in Genetic Epidemiology. The program is located in the Old Shriners’ Hospital building at the corner of Euclid and Clayton at 706 South Euclid/4565 Clayton Ave., Suite 3300. Please refer to the map of the School of Medicine. Master of Science in Biostatistics (MSIBS): June 28, 2016-December 18, 2017
This 41-credit hour, 18-month program is designed to prepare students for exciting careers in Biostatistics and Statistical Genetics. We seek those with undergraduate or higher degrees in quantitative sciences (mathematics, statistics, computer science, biomedical engineering, or a closely related field). A choice of two pathways is offered in either area of concentration: Biostatistics or Statistical Genetics.

Genetic Epidemiology
We offer a Certificate in Genetic Epidemiology, which may be earned with successful completion (with a minimum of a “B” average) of 6 core courses, totaling 17 credit hours. These courses are only offered in the summer and fall semesters and must be completed within one or two years: M21-503 Statistical Computing with SAS®, M21-515 Fundamentals of Genetic Epidemiology, M21-550 Intro. to Bioinformatics, M21-560 Biostatistics I, M21-570 Biostatistics II, and M21-5483 Human Linkage and Association. Next entry for new students is summer 2015. We also offer a post-doctoral master’s degree in Genetic Epidemiology. Interested candidates with an existing doctoral degree in a relevant field. (CERTIFICATE & MASTER’S)

The 2016-17 Academic Calendar begins with these intensive summer courses (9 credits total).

The early workshop is offered at no cost to students enrolled in one or more summer or fall courses. June 28-29 Orientation June 30-July 1 Workshops July 5-July 12 M21-506 R Primer, July 13-26 M21-515 Fundamentals of Genetic Epidemiology, July 27-August 9 Introduction to Bioinformatics, August 10-18 M21-503 Statistical Computing with SAS®, M21-515 Fundamentals of Genetic Epidemiology, July 27-August 9 Introduction to Bioinformatics, August 10-18 M21-503 Statistical Computing with SAS®, M21-515 Fundamentals of Genetic Epidemiology, July 27-August 9 Introduction to Bioinformatics, August 10-18 M21-503 Statistical Computing with SAS® Summer classes are intensive, meeting full days. Monday-Friday. Tentative schedule above should be checked against web sites for updates.

Spring 2016 Academic Calendar Courses follow the calendar of the College of Arts and Sciences, with spring courses beginning January 17.

Registration Instructions for M.S. Candidates
The degree programs are structured and sequential. Students cannot, therefore, register online but must register with the Biostatistics Program Manager.

Registration Instructions for students outside the degree programs
Before registering, current Washington University students must obtain appropriate consent from their division/department. Students outside of the degree program must provide permission from the MSIBS Program Director to register. Please contact the Curriculum Coordinator in the Clinical Research Training Center prior to registration.

Further Information
For more information, please visit our website: https://biostatistics.wustl.edu

Registration Instructions for Students Outside of MSIBS Program
Before registering, current Washington University students must obtain appropriate consent from their division/department. Students outside of the MSIBS Program must provide permission from the MSIBS Program Director to register. Please contact the Curriculum Coordinator in the Clinical Research Training Center prior to registration.

Fall 2016 Academic Calendar
Fall courses begin on August 29, 2016. Registration opens on April 1, 2016. The last day to drop a class and receive a full refund is September 12, 2016.

MSCI Program Leadership
David K. Warren, MD, MPH
Program Director

Further Information
For more information, please contact Suzie Fragale, Curriculum Coordinator, sfragale@dom.wustl.edu.

The Curriculum Coordinator manages student registration. Enrollmen is subject to space availability. Priority registration for degree-seeking students begins April 2, 2015.

Registration Instructions for M.S. Candidates
The degree programs are structured and sequential. Students cannot, therefore, register online but must register with the Biostatistics Program Manager.

Further Information
For the Master’s Degree in Biostatistics, see our website at https://biostatistics.wustl.edu or contact the Program Manager for further information: telephone 314-362-1364 or email msibs@wubios.wustl.edu.
studies in one of six areas of concentration: Productive Aging, Children & Youth, Rehabilitation Science, Neurorehabilitation, Work & Industry, or Social Participation and the Environment. This is a three and one-half year curriculum which fulfills all requirements necessary to sit for the national certification exam for occupational therapists.

Registration Instructions
Enrollment in any of the graduate level courses requires acceptance into the Program in Occupational Therapy or approval of the coursemaster. Students wishing to enroll should contact the program at 286-1600. Registration of matriculated graduate students is performed on-line by the administrative staff.

The Academic Calendar
The Program in Occupational Therapy follows the calendar of the College of Arts and Sciences.

Contact Persons
M. Carolyn Baum, Ph.D., OTRL, FAOTA
Elias Michael Director
(314) 286-1600

Shannon Eckhoff
Academic Systems Manager
(314) 286-1600

The Program in Occupational Therapy hosts several events each year for hilltop students who wish to visit the Program and investigate occupational therapy as a career. For more information, please contact Kathleen Kriegmann at (314) 286-1610.

---

**PHYSICAL THERAPY PROGRAM**

**Academic Calendar 2016-2017**

**Fall Semester (1st, 2nd Year Classes)**

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Year Orientation</td>
<td>Aug 16 - 19</td>
</tr>
<tr>
<td>2nd Year Orientation</td>
<td>Aug 18</td>
</tr>
<tr>
<td>1st Year Classes Begin</td>
<td>Aug 22</td>
</tr>
<tr>
<td>2nd Year Classes Begin</td>
<td>Aug 19</td>
</tr>
<tr>
<td>Labor Day</td>
<td>Sep 5</td>
</tr>
<tr>
<td>Fall Break</td>
<td>Oct 3 - 4</td>
</tr>
<tr>
<td>Thanksgiving Break</td>
<td>Nov 23 - 25</td>
</tr>
<tr>
<td>Finals</td>
<td>Dec 12 - 16</td>
</tr>
<tr>
<td>Winter Break</td>
<td>Dec 15 - Jan 9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3rd Year Class:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE III</td>
</tr>
<tr>
<td>CE IV</td>
</tr>
</tbody>
</table>

**Spring Semester (1st, 2nd, 3rd Year Classes)**

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Year Class:</td>
<td>Jan 9 – May 5</td>
</tr>
<tr>
<td>Classes Begin</td>
<td>Jan 9</td>
</tr>
<tr>
<td>MLK Holiday</td>
<td>Jan 16</td>
</tr>
<tr>
<td>Spring Break</td>
<td>Mar 6 - 10</td>
</tr>
<tr>
<td>Finals</td>
<td>May 1 - 5</td>
</tr>
<tr>
<td>CE I</td>
<td>May 15 – Jul 7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2nd Year Class:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE II</td>
</tr>
<tr>
<td>MLK Holiday</td>
</tr>
<tr>
<td>Spring Break</td>
</tr>
<tr>
<td>Classes Begin</td>
</tr>
<tr>
<td>Finals</td>
</tr>
</tbody>
</table>

**3rd Year Class: Jan 9 – May 9**

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classes Begin</td>
<td>Jan 9</td>
</tr>
<tr>
<td>MLK Holiday</td>
<td>Jan 16</td>
</tr>
<tr>
<td>Spring Break</td>
<td>Mar 6 - 10</td>
</tr>
<tr>
<td>Finals</td>
<td>May 8 - 9</td>
</tr>
<tr>
<td>Graduation</td>
<td>May 19</td>
</tr>
</tbody>
</table>

The program in Physical Therapy is located at the corner of Forest Park Blvd and Newstead Ave at 4444 Forest Park Blvd. Please refer to the Medical Center map.

**DEGREE PROGRAMS –**

**Doctor of Physical Therapy**
An entry-level, full-time program that focuses on diagnosis and evidence based practice of physical therapy. This program refines scientific and biomedical knowledge incorporating additional clinical experiences and coursework to prepare students for the practice of physical therapy. This degree is offered through the School of Medicine and courses are coded M02.

**Course Restrictions**
Physical Therapy courses, with the exception of PT 5001 Independent Study, are open ONLY TO INDIVIDUALS ENROLLED IN THE PROGRAM IN PHYSICAL THERAPY (GP).

**Registration Information**
The Program in Physical Therapy is a structured three year curriculum for the Doctor of Physical Therapy degree. Registration for physical therapy students is NOT completed on-line. Withdrawal from required courses must be approved by either the program’s Director or the Associate Director for Professional Education.

---

**POPULATION HEALTH SCIENCES**

**MASTER OF POPULATION HEALTH SCIENCES**

The Master of Population Health Sciences (MPHS), offered by Washington University School of Medicine, is designed as a ten-month, full-time degree program that meets the needs of clinicians seeking training in population-based research methods. Its quantitative curriculum emphasizes the role of epidemiology and biostatistics in approaching clinical effectiveness and outcomes research. The MPHS does not require a research thesis/capstone. Instead, the program uses applied coursework to focus on the long-term application of skills. Using topics relevant to their careers and interests, the applied coursework allows MPHS students to practice the art of developing research study protocols, performing systematic reviews, designing epidemiologic studies and more. The MPHS program currently offers four concentrations: Clinical Epidemiology, Health Services, Quantitative Methods and Psychiatric and Behavioral Health Sciences.

Successful applicants will have a strong academic record and relevant academic preparation with particular emphasis on quantitative skills, identified clear career goals that correlate to MPHS program competencies, and completed (or in the process of completing) a clinical training program at the doctoral level. 2016 – 2017 applications are due January 15, 2016.

MPHS students take seven required core courses; an introduction to SAS, a sequence of three courses in epidemiology, two courses in biostatistics, and research ethics. Eligible elective credits include courses offered through the MPHS program as well as other population health-related graduate courses offered at Washington University (program director approval required).

Graduating MPHS students will have demonstrated skill in program competencies including study design, program evaluation, data analysis (theory and application), use of statistical software packages (e.g. SAS), calculating rates, meta-analysis, statistical modeling, clinical trials, and observational studies.

The academic year is divided into four intensive 8-week quarters designed to allow full-time MPHS students to complete the program in ten months. Part-time study is allowed but students are expected to complete the degree within three years of matriculation. Students interested in part-time study need approval of the program director.

The MPHS Program Coordinator coordinates MPHS student registration. All other students register through and according to their home program processes; enrollment is subject to instructor approval.

Fall 2016 MPHS courses are scheduled for:
- Session Fall I – Aug 29, 2016 to October 14, 2016
- Session Fall II – October 17, 2016 to December 21, 2016
- Spring I – January 17, 2017 to March 10, 2017
- Spring II – March 13, 2017 to May 10, 2017

MPHS Program Leadership
Graham Colditz, MD, DrPH, Program Director

Further information available at www.mphs.wustl.edu or by contacting Joyce Linn, MPHS Program Coordinator, linnj@wudosis.wustl.edu or (314) 362-5501.
Academic Calendar 2016-17

June 2016
17 New 3rd year class: Clinic Orientation
20 3rd, 4th year classes: Academic year begins

July 2016
3 Independence Day holiday begins, 5pm
4 Independence Day Observance (Friday)

August 2016
1 1st year class: Orientation, matriculation & initial payment of tuition/fees
2 1st year classes: Academic year begins
15 2nd year classes: Academic year begins

September 2016
4 Labor day holiday begins at 5 p.m.
5 Labor Day Observance (Monday)

November 2016
23 Thanksgiving Day holiday begins, 5pm
24 Thanksgiving Day Observance
25 Holiday for all classes

December 2016
16 All classes: Winter recess begins, 5pm

January 2017
3 All classes: Winter recess ends and classes resume, 8am
15 Martin Luther King Day holiday begins, 5pm
16 Martin Luther King Day Observance

March 2017
24 1st & 2nd year classes: Spring break begins 5pm
30 3rd and 4th year classes: Spring break begins at 5 p.m.

April 2017
3 All classes: Classes resume, 8am

May 2017
7 Graduating students: Academic year ends, 5pm
12 2nd year class: Academic year ends, 5pm
19 Commencement (Friday)
26 1st year class: Academic year ends, 5 p.m.
28 Memorial Day holiday begins, 5pm
29 Memorial Day Observance

June 2017
2 1st year class: Academic year ends, 5 p.m.
3rd year class: Academic year and Clinical clerkships end, 5pm

Schedule of Clerkship & Elective Intervals
Weeks 1-4 Jun 20 - Jul 17 2016
Weeks 5-8 Jul 18 - Aug 14 2016
Weeks 9-12 Aug 15 - Sep 11 2016
Weeks 13-16 Sep 12 - Oct 9 2016
Weeks 17-20 Oct 10 - Nov 6 2016
Weeks 21-24 Nov 7 - Dec 4 2016
Weeks 25-28 Dec 5 - Jan 15 2017
(Winter recess 5pm (12/16-1/2)
Weeks 29-32 Jan 16 - Feb 12 2017
Weeks 33-36 Feb 13 - Mar 12 2017
Weeks 37-40 Mar 13 - Apr 9 2017
Weeks 41-44 Apr 10 - May 7 2017
Weeks 45-48 May 8 – June 2 2017

Tuition Payment Deadlines:
Class Initial Final
Level Payment Payment
1st Year Aug 1, 2016 Jan 6, 2017
2nd Year Aug 19, 2016 Jan 6, 2017
3rd & 4th Year Jun 24, 2016 Jan 6, 2017

NOTE: The beginning and ending dates of each academic term will be published with individual class schedules.

Doctor of Medicine Program
The School of Medicine is located in the Washington University Medical Center at 660 S. Euclid.

Course Restrictions/Registration Procedures for Non-medical Students
Courses listed in this section are restricted to students accepted into the Doctor of Medicine degree program unless otherwise noted in the course description.

Students not in the degree program interested in registering for the allowed courses should register under the crosslisted number noted, following the procedures of the student's home school. Dates, refunds and policies with regard to withdrawal from a course will also be determined by the student's home school. Payment of fees to the School of Medicine will be handled administratively. Please note: prerequisites and required instructor permission must be strictly enforced. Students enrolling in any course without following specified procedures will be dropped from the roster without notice. Space is sometimes limited and medical students must be given priority. If you must be dropped from a course due to unforeseen space limitations, you will be contacted immediately.

Registration Procedures for Medical Students
Due to the structured nature of the program leading to the degree Doctor of Medicine, registration is most efficiently accomplished administratively. On-line registration will NOT be used for the current academic year for medical students. You will be notified of procedures specific to your class. Policies of the School of Medicine apply regarding performance, payment of fees, etc. and are published in the Bulletin, CAPES Regulations and other medical school publications that are distributed to medical students.

Doctor of Philosophy/Doctor of Medicine and Master of Arts/Doctor of Medicine
See the Division of Biomedical Sciences, Graduate School of Arts and Sciences. Joint degree students should follow registration procedures of the division that will be prime in the semester for which you are registering.

For additional information contact the Registrar’s Office at 362-6848.

Availability of Medical Classes to Students Not Admitted to the Doctor of Medicine Program
Registration for the following courses is open to students outside the Doctor of Medicine degree program only where noted in course descriptions, if all course prerequisites are met, and always with approval of the course instructor. Courses available for enrollment are identified as crosslisted. Students register in the division where the class is crosslisted and not with the medical school. Contact the School of Medicine at 362-6848 for further information about the availability of medical school courses.

ELECTIVE PROGRAM—FOURTH YEAR MEDICAL SCHOOL

Philosophy of the Elective Program
The elective year allows the student to develop a flexible program which should be of great value and interest in the middle of an eight- to ten-year period of formal education. This flexible year occurs at a crucial time, you will be notified of prerequisites are met, and always with approval of the course instructor. Courses available for enrollment are identified as crosslisted. Students register in the division where the class is crosslisted and not with the medical school. Contact the School of Medicine at 362-6848 for further information about the availability of medical school courses.

Requirements
To qualify for the degree of Doctor of Medicine at Washington University School of Medicine, students are required to satisfactorily complete a minimum of 32 weeks of approved electives in the fourth (final) year, in addition to a required four-week Capstone course. The fourth year encompasses a 44-week time block. At least 24 of the 36 weeks required time of the elective program must be taken on campus in the Washington University School of Medicine elective courses described in this catalog. Most students utilize most of the elective year for clinical electives. Clinical electives are generally of four weeks duration. Research electives are a minimum of six weeks, and a maximum of 12 weeks duration. Special study electives are typically of four weeks duration. Reading electives may range from 1-4 weeks, but a student may not spend more than 4 weeks on reading electives.

NOTE: You should be aware that on January 1, 1996, the Medical Board of California, Assembly Bill 3497 added to Section 2089.5 of the Business and Professions Code a new requirement for four weeks of undergraduate clinical training in family medicine. This new family medicine requirement applies to all California licensing applicants who graduate from medical school after May 1, 1998.
Inquiries and correspondence should be directed to:

Curriculum Office
Washington University School of Medicine
660 S. Euclid Avenue, Box 8214
St. Louis, Missouri 63110
(314) 362-6838

Medical students participating in any of the electives described in this booklet will be providing services as members of a team under the direct supervision of an attending physician or senior resident. While Washington University School of Medicine strives to provide each student with maximum responsibility and experience, students will be supervised in their efforts at all times until they are fully licensed.

Visiting students should go to http://wusmdar1.wustl.edu/medstudents/eletvcat.nsf for eligibility requirements and additional information.

Fourth Year Medical School
Washington University School of Medicine offers an extensive array of electives and research opportunities at the 800 and 900 course levels for the 4th year medical student.

Specific areas of study and research opportunities are listed below. Please access the website for further details of elective offerings: http://wusmdar1.wustl.edu/medstudents/eletvcat.nsf/ehome?openpage

Anatomy and Neurobiology
(Level 800)
Advanced Dissection
(Level 900)
Research Opportunities

Anesthesiology
(Level 800)
Anesthesiology
Anesthesia for Neurosurgery
Cardiothoracic Anesthesiology
Cardiothoracic Critical Care
Critical Care
Obstetrical Anesthesia
Pain Management
Pediatric Anesthesia

Biochemistry and Molecular Biophysics
(Level 900)
Research Opportunities

Cell Biology and Physiology
(Level 900)
Research Opportunities

Developmental Biology
(Level 900)
Research Opportunities

Genetics
(Level 900)
Research Opportunities

Internal Medicine
(Level 800)
Adult Allergy and Clinical Immunology
Ambulatory Care — Jacqueline Maritz Lung Center
Ambulatory Infectious Disease
Bone and Joint Infectious Disease Consult
Bone and Mineral Diseases
Bone Marrow Transplantation & Stem Cell Biology
Cardiac Arrhythmias and Electrophysiology
Clinical Cardiology — VA
Clinical Cardiovascular Medicine
Clinical Emergency Medicine, Barnes-Jewish Hospital
Clinical Gastroenterology and Hepatology
Clinical Internal Medicine — Hospitalist
Clinical Mentoring
Clinical Nephrology
Dermatology
Emergency Ultrasound
Endocrinology, Diabetes and Metabolism
General Inpatient Infectious Disease
Geriatric Medicine
Heart Failure/Cardiac Transplantation
Hematology and Hemostasis
Hons Medicine — Cardiology
Hons Medicine — General Medicine
Hons Medicine — VA Hospital
Inpatient Cardiology
Inpatient Internal Medicine/Oncology—Firm
Intensive Care Medicine — BJ North
Intensive ECG Interpretation
Medical Intensive Care
Medical Toxicology
Medicine Consult Service
Occupational/Environmental Medicine
Oncology-Inpatient
Oncology-Outpatient
Palliative Medicine
Pulmonary Clinic for the Underserved
Pulmonary Medicine, Barnes-Jewish Hospital
Pulmonary Medicine — VA Hospital
Rheumatology
Transplant Infectious Disease Consult
Wilderness Medicine

Research Opportunities

Molecular Microbiology
(Level 900)
Research Opportunities

Neurology
(Level 800)
Adult and Pediatric Epilepsy
Clinical Aspects of Aging and Dementia
Clinical Neuroimmunology and Multiple Sclerosis
MS Center Outpatient — Missouri Baptist
Neonatal Neurology
Neuro-Oncology
Neurology Subinternship
Neurology Subinternship for Visiting Students
Neurology/Neurosurgery ICU
Pediatric Neurology
Physical Medicine and Rehabilitation

Research Opportunities

Neurological Surgery
(Level 800)
Neurosurgery

Research Opportunities

Obstetrics and Gynecology
(Level 800)
GYN Female Pelvic Medicine & Reconstructive Surgery
GYN Oncology/Subinternship
Maternal-Fetal Medicine Outpatient Care Subinternship
Maternal-Fetal Medicine Inpatient (Antepartum) Subinternship
Obstetrical Anesthesia
OB/GYN Endocrinology-Infertility Subinternship
OB/GYN Outpatient Care Subinternship
OB/GYN Ultrasound — Genetics
Special Topics in Reproductive Health

Research Opportunities

Ophthalmology and Visual Sciences
(Level 800)
Ophthalmology

Research Opportunities

Orthopaedic Surgery
(Level 800)
Orthopaedic Hand and Upper Extremity Surgery
Orthopaedic Oncology
Orthopaedic Pediatric Surgery
Orthopaedic Spine Surgery in Adult Patients
Orthopaedic Sports Medicine
Orthopaedic Surgical Extremity For Visiting Students Only
Orthopaedic Surgery — Foot/Ankle Surgery
Orthopaedic Surgery — Shoulder/Elbow Surgery
Orthopaedic Trauma
Pediatric Orthopaedic Spine & Sports Surgery
Reconstructive and Joint Preservation Surgery

Research Opportunities

Otolaryngology
(Level 800)
Ambulatory Otolaryngology For the Primary Care Physician
General Otolaryngology
Neurotology
Otolaryngology
Pediatric Otolaryngology
Practicum in Adult Clinical Audiology

Research Opportunities

Pathology
(Level 800)
Autopsy Pathology
Clinical Laboratory Medicine
Dermatopathology
Diagnostic Hematopathology
General Pathology
Introduction to Neuropathology
Molecular Pathology
OB-GYN Pathology Subinternship
Surgical Pathology — Barnes-Jewish

Research Opportunities

Pediatrics
(Level 800)
Clerkship in Rural Primary Care Pediatrics
Clinical Pediatric Pulmonary Medicine
General Pediatrics Subinternship — St. Louis Children’s Hospital
Genetics and Genomic Medicine
Newborn Medicine
Pediatric Asthma and Allergy
Pediatric Cardiac Catheterization
Pediatric Cardiology-Outpatient Service
Pediatric Critical Care Medicine
Pediatric Emergency Medicine
Pediatric Endocrinology and Diabetes
Pediatric Gastroenterology, Hepatology and Nutrition
Pediatric Infectious Diseases
Pediatric Lung Transplantation
Pediatric Pulmonary Subinternship
Pediatric Renal Disease
Pediatric Rheumatology
Quality of Care Through Health Informatics
Subinternship in Pediatric Hematology and Oncology

Research Opportunities

Psychiatry
(Level 800)
Child Psychiatry
Clinical Psychiatry-Inpatient Psychiatric Service
Forensic Psychiatry
Interventional Psychiatry
Introduction to Eating Disorders
Outpatient Community Psychiatry
Psychiatric Oncology
Psychiatry Consult Service
Schizophrenia Precursors and Prodromal States
   (Level 900)
   Research Opportunities

**Radiation Oncology**
   (Level 800)
   Clinical Radiation Oncology
   (Level 900)
   Research Opportunities

**Radiology**
   (Level 800)
   Clinical Nuclear Medicine
   General Radiology
   Interventional Radiology
   (Level 900)
   Research Opportunities

**Surgery**
   (Level 800)
   Cardiothoracic Surgery
   Colon and Rectal Surgery, Acting Internship
   Critical Care
   Ethical Challenges in Surgery and Medicine
   Hepatobilary Pancreatic Surgery, Acting Internship
   Minimally Invasive Surgery, Acting Internship
   Organ Transplantation
   Pediatric Surgery
   Plastic Reconstructive Surgery
   Plastic Surgery Externship For Visiting Students Only
   Surgical Night Float and ER Subinternship
   Surgical Oncology and Endocrine Surgery, Acting Internship
   Trauma Service, Acting Internship
   Urology
   Vascular Surgery, Acting Internship
   (Level 900)
   Research Opportunities

**Additional Electives**
   (Level 800)
   Biomedical Innovation and Entrepreneurship
   Fourth Year Capstone Course
   The Business of Medicine
   (Level 900)
   Research Opportunities