

# SCHOOL OF MEDICINE

## PROGRAMS

- Applied Health Behavior Research (M88)
- Audiology & Communication Sciences (M89)
- Biostatistics and Genetic Epidemiology (M21)
- Clinical Investigation (M17)
- Occupational Therapy (M01)
- Physical Therapy-Grad (M02)
- Physical Therapy-PP-DPT (M22)
- Population Health Sciences (M19)
- Doctor of Medicine
  - Anatomy & Neurobiology (M05)
  - Biochemistry & Molecular Biophysics (M15)
  - Cell Biology & Physiology (M75)
  - Divisions, Institutes & Other Categories (M80)
  - Elective Program-WUMS I (M04)
  - Family Practice (M26)
  - Internal Medicine (M25)
  - Molecular Biology & Pharmacology (M70)
  - Molecular Microbiology (M30)
  - Neurology (M35)
  - Obstetrics & Gynecology (M45)
  - Ophthalmology & Visual Sciences (M50)
  - Otolaryngology (M55)
  - Pathology (M60)
  - Pediatrics (M65)
  - Psychiatry (M85)
  - Radiology (M90)
  - Research (M99)
  - Surgery (M95)
- Elective Program-Fourth Year Medical School

# APPLIED HEALTH BEHAVIOR RESEARCH PROGRAM

## APPLIED HEALTH BEHAVIOR RESEARCH (M88)

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 Option
  - 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.

### 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.

### Spring 2017 Academic Calendar

Spring courses begin on January 17, 2017. Registration opens on November 1, 2016. The last day to drop a class and receive a full refund is January 31, 2017.

### AHBR Program Leadership

Amy McQueen, PhD, Program Director

## Further Information

For more information and the complete academic calendar, please visit our website: <http://crtc.wustl.edu/degrees/ahbr.html>.

For specific questions about the Applied Health Behavior Research curriculum, please contact [ahbr@dom.wustl.edu](mailto:ahbr@dom.wustl.edu).

# AUDIOLOGY AND COMMUNICATION SCIENCES

## AUDIOLOGY AND COMMUNICATION SCIENCES (M89)

The Program in Audiology and Communication Sciences (PACS) is located in the Central Institute for the Deaf (CID) Building, 4560 Clayton Avenue, Suite 2000 (2nd Floor). Please refer to School of Medicine campus map.

### Contact Information

Phone: (314) 747-0104  
 Fax: (314) 747-0105  
 Web: <http://pacs.wustl.edu>  
 Email: [pacs@wustl.edu](mailto:pacs@wustl.edu)  
 Web: <http://pacs.wustl.edu>

### Minor - Speech and Hearing Sciences

A minor in Speech and Hearing Sciences is available to qualified students enrolled in the College of Arts & Sciences at Washington University in St. Louis. This minor provides students with an introduction to the fields related to speech, hearing, language, and deafness, and can also be designed to meet prerequisite requirements for students interested in entering graduate programs in audiology, deaf education, or speech-language pathology. Please contact the PACS Office or your major advisor, or refer to the current Handbook of Academic Minors, for more information.

### Graduate Programs

- Doctor of Audiology (Au.D.)
- Master of Science in Deaf Education (M.S.D.E.)
- Doctor of Philosophy (Ph.D.) in Speech and Hearing Sciences

### Registration Instructions

Enrollment in courses in the Minor in Speech and Hearing Sciences is open to students outside PACS, including undergraduates. Additional courses may also be open for registration by non-PACS students with instructor permission; refer to the course description for information.

### Academic Calendar

The Program in Audiology and Communication Sciences follows the academic calendar of the College of Arts & Sciences. Final exam schedules are determined by PACS.

## **BIostatISTICS (MSIBS) & GENETIC EPIDEMIOLOGY PROGRAM (CERTIFICATE & MASTER'S)**

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 27, 2017-December 20, 2018

This 42-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 7 core courses, totaling 19 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®

M21-506 R Primer

M21-515 Fundamentals of Genetic Epidemiology

M21-550 Intro. to Bioinformatics

M21-560 Biostatistics I

M21-570 Biostatistics II

M21-5483 Human Linkage and Association. Next entry for new students is summer 2017.

We also offer a post-doctoral master's degree in Genetic Epidemiology. Interested candidates with an existing doctoral degree in a relevant field may contact the program manager for additional information.

### **The 2017-2018 Academic Calendar begins with these intensive summer courses (10 credits total).**

Summer classes are intensive, meeting full days, Monday- Friday.

Early workshops are offered during Orientation at no cost to students enrolled in one or more summer or fall courses. Orientation is from June 27-30, 2017.

M21-506 R Primer

M21-515 Fundamentals of Genetic Epidemiology

M21-550 Introduction to Bioinformatics

M21-503 Statistical Computing with SAS®

### **Spring 2017 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 the degree/certificate programs enrolling in individual courses must also have permission of the course master. Contact the Biostatistics Program Manager to initiate.

### **Further Information**

For the Master's Degree in Biostatistics, see our website at <https://biostatistics.wustl.edu/Pages/Main.aspx> or contact the Program Manager for further information: telephone 314-362-1384 or email [biostat-msibs@email.wustl.edu](mailto:biostat-msibs@email.wustl.edu).

## **CLINICAL INVESTIGATION PROGRAM**

### **CLINICAL INVESTIGATION (M17)**

The degree programs in clinical investigation are housed in the Clinical Research Training Center in the Wohl Clinic.

### **Master of Science in Clinical Investigation (MSCI)**

A 33-credit degree program for young investigators committed to pursuing academic careers in clinical research. This innovative program couples high-quality didactic courses with mentored research and a weekly, multi-disciplinary seminar to meet the needs of clinicians seeking training in clinical research. The Clinical Research Curriculum covers the full spectrum of T1 to T4 Translational Research. The degree program offers three tracks to degree completion: Clinical Investigation Track, Translational Medicine Track, and Genetics/Genomics Track. The degree culminates in a research thesis which can consist of a peer-reviewed manuscript or an entrepreneurial project.

### **Certificate in Clinical Investigation**

To earn a Certificate in Clinical Investigation, scholars are required to complete 16 credits of core curriculum:

M17-513 Designing Outcomes & Clinical Research

OR

M17-588 Epidemiology for Clinical Research

M17-522 Introduction to Statistics

M17-524 Intermediate Statistics

M17-510 Ethical & Legal Issues in Clinical Research

M17-589 Intermediate Methods for Clinical &

Outcomes Research

M17-528 Grantsmanship OR

M17-529 Scientific Writing and Publishing

### **Registration Instructions for MS in Clinical Investigation candidates**

The Curriculum Coordinator manages student registration. Enrollment is subject to space available.

Registration for degree-seeking students begins November 10, 2016.

### **Registration Instructions for Students Outside of MSCI Program**

Before registering, current Washington University students must obtain appropriate consent from their division/department. Students outside of the MSCI program must have permission from the MSCI Program to register. Please contact the Curriculum Coordinator in the Clinical Research Training Center prior to registration.

### **Spring 2017 Academic Calendar**

Spring courses begin on January 17, 2017. Registration opens on November 10, 2016. The last day to drop a class and receive a full refund is February 17, 2017.

### **MSCI Program Leadership**

David K. Warren, MD, MPH

Program Director

### **Further Information**

For more information and the complete academic calendar, please visit our website:

<https://crtc.wustl.edu/courses/class-list/msci-courses/>

For specific questions about the Clinical Investigation degree or curriculum, please contact Suzie Fragale, Curriculum Coordinator, [fragale@wustl.edu](mailto:fragale@wustl.edu).

## **OCCUPATIONAL THERAPY PROGRAM**

### **OCCUPATIONAL THERAPY PROGRAM**

### **(M01)**

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

### **Master of Science in Occupational Therapy**

The Master of Science in Occupational Therapy (MSOT) is a professional, entry-level master's degree offered through the Washington University School of Medicine. The degree program is a structured, two and one-half year curriculum designed to prepare practicing professionals in the discipline of occupational therapy. The curriculum fulfills all of the requirements necessary to sit for the national certification exam for occupational therapists.

### **Three-Two Program**

Washington University undergraduates may elect to become part of the three-two program in occupational therapy. Undergraduates completing prerequisite requirements, may apply to the graduate OT program in their junior year. For more information, or to explore occupational therapy as a career, please contact Kathleen Kniepmann, MPH, OTR/L at 286-1610. Several OT courses welcome undergraduate students with an interest in disability issues.

**Doctor of Occupational Therapy Degree Program**

The Doctor of Occupational Therapy (OTD) is a professional degree offered by the School of Medicine providing students the opportunity to focus their OT 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., OTR/L, 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 Knipmann at (314) 286-1610.



MLK Holiday	Jan 16
Spring Break	Mar 6 – 10
Classes Begin	Mar 13
Finals	Jun 26 – 30
<b>3<sup>rd</sup> Year Class:</b>	<b>Jan 9 – May 9</b>
Classes Begin	Jan 9
MLK Holiday	Jan 116
Spring Break	Mar 6 – 10
Finals	May 8 - 9
Graduation	May 19

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.



**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 three concentrations: Clinical Epidemiology, Health Services 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. 2017 – 2018 applications are due January 13, 2017.

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 2017 MPHS courses are scheduled for:  
Session Fall I – August 28, 2017 to October 20, 2017  
Session Fall II – October 23, 2017 to December 20, 2017  
Spring I – January 16, 2018 to March 9, 2018  
Spring II – March 12, 2018 to May 9, 2018

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

Further information available at [www.mphs.wustl.edu](http://www.mphs.wustl.edu) or by contacting Joyce Linn, MPHS Program Coordinator, [linni@wudosis.wustl.edu](mailto:linni@wudosis.wustl.edu) or (314) 362-5501.

**Academic Calendar 2016-2017**

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

1 <sup>st</sup> Year Orientation	Aug 16 - 19
2 <sup>nd</sup> Year Orientation	Aug 18
1 <sup>st</sup> Year Classes Begin	Aug 22
2 <sup>nd</sup> Year Classes Begin	Aug 19
Labor Day	Sep 5
Fall Break	Oct 3 - 4
Thanksgiving Break	Nov 23 - 25
Finals	Dec 12 - 16
Winter Break	Dec 19 - Jan 9
<b>3<sup>rd</sup> Year Class:</b>	
CE III -	Jul 5 - Sep 9
CE IV -	Sep 26 - Dec 16

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

<b>1<sup>st</sup> Year Class:</b>	<b>Jan 9 – May 5</b>
Classes Begin	Jan 9
MLK Holiday	Jan 16
Spring Break	Mar 6 - 10
Finals	May 1 - 5
CE I	May 15 – Jul 7
<b>2<sup>nd</sup> Year Class:</b>	<b>Mar 7 – Jun 24</b>
CE II	Jan 9 - Mar 3

# DOCTOR OF MEDICINE PROGRAM

## 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 2<sup>nd</sup> 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	2016-17
	(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 Level	Initial Payment	Final 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 regarding 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 removed 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 Biology and 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 coursemaster. 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, helps the student decide on the rest of his/her formal education and helps focus productively upon already established interests. It also enables students to benefit from the wide range of specialized knowledge and skills found in the faculty. As there is not enough time for each student to be introduced to each of today's areas of specialization, the elective program permits the student to select, according to desire, areas to explore in depth.

### 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 required weeks 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 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:**

**Electives Office  
Office of Medical Student Education  
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 4<sup>th</sup> 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  
Research Opportunities

**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  
Honors Medicine – Cardiology  
Honors Medicine – General Medicine

Honors 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-Outpatient  
Palliative Medicine  
Primary Care through Alternative Delivery Models  
Pulmonary Clinic for the Underserved  
Pulmonary Medicine, Barnes-Jewish Hospital  
Pulmonary Medicine – VA Hospital  
Rheumatology  
Transplant Infectious Disease Consult  
Wilderness Medicine  
(Level 900)  
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  
(Level 900)  
Research Opportunities

**Neurological Surgery**

(Level 800)  
Neurosurgery  
(Level 900)  
Research Opportunities

**Obstetrics and Gynecology**

(Level 800)  
GYN Female Pelvic Medicine & Reconstructive Surgery (Urogynecology) Subinternship  
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  
(Level 900)  
Research Opportunities

**Ophthalmology and Visual Sciences**

(Level 800)  
Ophthalmology  
(Level 900)  
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 Surgery Externship 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  
(Level 900)  
Research Opportunities

**Otolaryngology**

(Level 800)  
Ambulatory Otolaryngology For the Primary Care Physician  
General Otolaryngology  
Neurotology  
Otolaryngology  
Pediatric Otolaryngology  
Practicum in Adult Clinical Audiology  
(Level 900)  
Research Opportunities

**Pathology**

(Level 800)  
Autopsy Pathology  
Clinical Laboratory Medicine  
Dermatopathology  
Diagnostic Hematopathology  
General Cytopathology  
Introduction to Neuropathology  
Molecular Pathology  
OB-GYN Pathology Subinternship  
Surgical Pathology – Barnes/Jewish  
(Level 900)  
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  
Subinternship in Pediatric Hematology and Oncology  
(Level 900)  
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

Hepatobiliary 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