

# 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 program that focuses on the applied skills required for the development, management and evaluation of research studies and health behavior programs in academic, clinical and community settings. The skills based curriculum is designed for working professionals pursuing studies on a part-time basis, and for full-time graduate students. A one year research intensive option can be completed in three semesters.

Two concentrations are offered:

- Health Behavior Research (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, as well as processes needed for managing program development and evaluation activities in clinical and community settings.

### Registration Instructions for students in AHBR graduate programs

The AHBR Program Manager oversees 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 Program Manager prior to registration.

### Fall 2017 Academic Calendar

Fall courses begin on August 28, 2017. Registration opens on April 1, 2017. The last day to drop a class and receive a full refund is September 12, 2017.

### AHBR Program Leadership

Amy McQueen, PhD, Program Director

### Further Information

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

For specific questions about the Applied Health Behavior Research curriculum, please contact Pam Struttman, Program Manager at [pstruttm@wustl.edu](mailto:pstruttm@wustl.edu) or [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 Becker Medical Library building at the corner of Euclid and Barnes-Jewish Hospital Plaza at 660 South Euclid, 5<sup>th</sup> Floor. 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

Entry for new students begins in the summer semester.

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.

### **2017-2018 Academic Calendar**

Courses follow the calendar of the College of Arts and Sciences.

### **Summer 2017 Academic Calendar**

Summer classes are intensive, meeting full days during the week. Early workshops are offered 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®

### **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> 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 April 18, 2017.

### **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.

### **Fall 2017 Academic Calendar**

Fall courses begin on August 28, 2017. Registration opens on April 18, 2017. The last day to drop a class and receive a full refund is September 12, 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 Kniepmann at (314) 286-1610.



**Academic Calendar 2017-2018**

**Fall Semester (1<sup>st</sup>, 2<sup>nd</sup> Year Classes)**

1 <sup>st</sup> Year Orientation	Aug 15 - 18
2 <sup>nd</sup> Year Orientation	Aug 17
1 <sup>st</sup> Year Classes Begin	Aug 21
2 <sup>nd</sup> Year Classes Begin	Aug 18
Labor Day	Sep 4
Fall Break	Oct 2 - 3
Thanksgiving Break	Nov 22 - 24
Finals	Dec 11 - 15
Winter Break	Dec 18 - Jan 5
<b>3<sup>rd</sup> Year Class:</b>	
CE III -	Jul 10 - Sep 15
CE IV -	Oct 2 - Dec 22

**Spring Semester (1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> Year Classes)**

<b>1<sup>st</sup> Year Class:</b>	<b>Jan 8 - May 4</b>
Classes Begin	Jan 8
MLK Holiday	Jan 15
Spring Break	Mar 5 - 9
Finals	Apr 30 - May 4
CE I	May 14 - Jul 6
<b>2<sup>nd</sup> Year Class:</b>	<b>Mar 12 - Jun 29</b>
CE II	Jan 8 - Mar 2
MLK Holiday	Jan 15
Spring Break	Mar 5 - 9
Classes Begin	Mar 12
Finals	Jun 25 - 29

<b>3<sup>rd</sup> Year Class:</b>	<b>Jan 8 - May 8</b>
Classes Begin	Jan 8
MLK Holiday	Jan 15
Spring Break	Mar 5 - 9
Finals	May 7 - 8
Graduation	May 18

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 of 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, [linnj@wudosis.wustl.edu](mailto:linnj@wudosis.wustl.edu) or (314) 362-5501.

# DOCTOR OF MEDICINE PROGRAM

### ACADEMIC CALENDAR 2017-18

**June 2017**  
 16 New 3rd year class: Clinic Orientation  
 19 3rd, 4th year classes: Academic year begins

**July 2017**  
 3 Independence Day holiday begins, 5pm  
 4 Independence Day Observance

**August 2017**  
 7 1st year class: Orientation, matriculation & initial payment of tuition/fees  
 8 1st year classes: Academic year Begins  
 21 2<sup>nd</sup> year classes: Academic year Begins

**September 2017**  
 3 Labor day holiday begins at 5 p.m.  
 4 Labor Day Observance

**November 2017**  
 22 Thanksgiving Day holiday begins, 5pm  
 23 Thanksgiving Day Observance  
 24 Holiday for all classes

**December 2017**  
 22 All classes: Winter recess begins, 5pm

**January 2018**  
 8 All classes: Winter recess ends and classes resume, 8am  
 14 Martin Luther King Day holiday begins, 5pm  
 15 Martin Luther King Day Observance

**March 2018**  
 30 1st & 2nd year classes: Spring break begins, 5pm

**April 2018**  
 5 3rd and 4th year classes: Spring break begins at 5 p.m.  
 9 All classes: Classes resume, 8am

**May 2018**  
 6 Graduating students: Academic year ends, 5pm  
 11 2nd year class: Academic year ends, 5pm  
 18 Commencement (Friday)  
 27 Memorial Day holiday begins, 5pm  
 28 Memorial Day Observance

**June 2018**  
 1 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 19 - Jul 16	2017
Weeks 5-8	Jul 17 - Aug 13	2017
Weeks 9-12	Aug 14 - Sep 10	2017
Weeks 13-16	Sep 11 - Oct 8	2017
Weeks 17-20	Oct 9 - Nov 5	2017
Weeks 21-24	Nov 6 - Dec 3	2017
Weeks 25-28	Dec 4 - Jan 14	2017-18
	(Winter recess 5pm (12/22-1/7))	
Weeks 29-32	Jan 15 - Feb 11	2018
Weeks 33-36	Feb 12 - Mar 11	2018
Weeks 37-40	Mar 12 - Apr 8	2018
Weeks 41-44	Apr 9 - May 6	2018
Weeks 45-48	May 7 - June 1	2018

**Tuition Payment Deadlines**

Class Level	Initial Payment	Final Payment
1st Year	Aug 7, 2017	Jan 12, 2018
2nd Year	Aug 25, 2017	Jan 12, 2018
3rd & 4th Year	Jun 23, 2017	Jan 12, 2018

**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 314-362-6848.**

**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, the areas s/he wishes 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 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 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 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

**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-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  
 (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  
 Quality of Care Through Health Informatics  
 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