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 for 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 (full-time)

Health Education, Program Planning & Evaluation (HEPPE) (full- or part-time)

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 and community-based settings.

Registration Instructions for students in AHBR graduate programs
The AHBR Program Manager oversees student registration. Enrollment is subject to space available. Spring 2020 registration for degree-seeking students begins November 7, 2019. Contact ahbr@email.wustl.edu for more information.

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 ahbr@email.wustl.edu prior to registration.

Spring 2020 Academic Calendar
Spring courses begin on January 13, 2020. Registration opens on November 7, 2019. The last day to drop a class and receive a full refund is January 29, 2020.

Further Information
For more information, please visit our website or contact the Project Manager directly: https://crtc.wustl.edu/programs/degrees/ahbr/ahbr@email.wustl.edu.

AUDIOLGY AND COMMUNICATION SCIENCES

AUDIOLGY 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
Web: http://pacs.wustl.edu

Minor - Speech and Hearing Sciences
A minor in Speech and Hearing Sciences is available to qualified WUSTL students enrolled in the College of Arts & Sciences. 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.

Further Information
For more information, please visit our website or contact the Project Manager directly: https://crtc.wustl.edu/programs/degrees/ahbr/ahbr@email.wustl.edu.
2019-2020 Academic Calendar
Courses follow the calendar of the College of Arts & Sciences.

BMI Program Leadership
Philip R.O. Payne, PhD, FACMI
Program Director
Andrea Krussel, MA
Assistant Director, Education and Strategic Initiatives

Further Information
For more information please visit our website at: https://informatics.wustl.edu/
For specific questions about the Biomedical Informatics MS and certificate programs, please contact Andrea Krussel at krussela@wustl.edu

BIOSTATISTICS & GENETIC EPIDEMIOLOGY PROGRAMS

BIOSTATISTICS & GENETIC EPIDEMIOLOGY (M21)
The Division of Biostatistics offers two master's degrees and a certificate 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, 5th Floor.

Master of Science in Biostatistics (MSIBS)
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.

Master of Science in Biostatistics and Data Science (MSBDS)
This 42-credit hour, 18-month program is designed to prepare students for exciting careers in Biostatistics with emphasis on Data Science training. We seek those with undergraduate or higher degrees in quantitative sciences (mathematics, statistics, computer science, biomedical engineering, or a closely related field).

Biostatistics and Data Science Certificate
We offer a Certificate in Biostatistics and Data Science, which may be earned with successful completion (with a minimum of a “B” average) of 6 core courses, totaling 18 credit hours. Students have up to two years to complete the certificate: M21-560 Biostatistics I

M21-570 Biostatistics II
M21-550 Introduction to Bioinformatics
M18-5302 Intro to Biomedical Informatics: Foundations
M18-5303 Intro to Biomedical Informatics: Methods
M21-660 Biomedical Data Mining

Genetic Epidemiology Certificate
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 for Data Science
M21-515 Fundamentals of Genetic Epidemiology
M21-550 Introduction to Bioinformatics
M21-560 Biostatistics I
M21-570 Biostatistics II
M21-5483 Human Genetic Analysis

Genetic Epidemiology Master of Science (GEMS)
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.

2020-2021 Academic Calendar
Courses follow the calendar of the College of Arts & Sciences. Entry for new students begins in the summer semester.

Summer 2020 Schedule
Summer classes are intensive, meeting full days during the week. Early workshops are required at no cost to students enrolled in one or more summer or fall courses. Orientation is in early July.
M21-506 R for Data Science
M21-560 Biostatistics
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
Additional information can be found on our website at https://biostatistics.wustl.edu/ or contact the Program Manager for further information: telephone 314-362-1384 or email biostat-mbvs@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
- 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: Grantmanship OR
- M17-529: Scientific Writing and Publishing

Registration Instructions for MS in Clinical Investigation candidates
The MSCI Curriculum Coordinator manages student registration. Enrollment is subject to space available. Registration for degree-seeking students begins November 8, 2019. Contact cfrtcs@email.wustl.edu for more information.

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 cfrtcs@email.wustl.edu prior to registration.

Spring 2020 Academic Calendar
Spring courses begin on January 13, 2020. Registration opens on November 8, 2019. The last day to drop a class and receive a full refund is January 29, 2020.

MSCI Program Leadership
David K. Warren, MD, MPH
Program Director
Dominic N. Reeds, MD
Program Co-Director

Further Information
For more information and the complete academic calendar, please visit our website at: https://cfrtcs.wustl.edu/programs/degrees/msci/
For specific questions about the Clinical Investigation degree or curriculum, please contact cfrtcs@email.wustl.edu.

MEDICAL PHYSICS

MEDICAL PHYSICS (M91)
The Graduate programs in Medical Physics are housed in the Center for Advanced Medicine located at 4921 Parkview Place.

Master of Science in Medical Physics
The MS in Medical Physics (MSMP) provides exposure to a wide array of radiation treatment techniques and quality control procedures as well as cutting edge research intended for:

1) Recent college graduates with backgrounds in Physics or Engineering sciences.
2) Post-bachs who are interested in preparing themselves to apply to Medical Physics clinical residency programs.

The 36-unit degree program offers the knowledge, skills, and experience necessary to prepare students for careers in medical physics with 2 tracks:

1) Clinical Project Stream
2) Thesis Research Stream

Students can select approved electives and optional summer research or clinical experiences based on their chosen track and educational background. The degree is intended to be completed full-time and it will culminate with a thesis or capstone project.

Post PhD Certificate in Medical Physics
The Post PhD Certificate in Medical Physics is intended to provide those with PhD’s in Physics an alternative pathway to preparation for entry into Medical Physics Clinical Residency Programs. The certificate is 18 credit hours of core courses and can be completed on a 1-year or 2-year schedule.

BIOL 4580: Principles of Human Anatomy/Development
MP 502: Radiological Physics and Dosimetry
MP 521: Radiation Protection and Safety
BME 589: Biological Imaging Technology
MP 505: Radiobiology
MP 506: Radiation Oncology Physics
MP 523: Advanced Clinical Medical Physics Lab

Registration Instructions for Students in MP Graduate Programs
The MP Program Director and Program Coordinator manage academic enrollment. Enrollment is subject to space availability. Registration for degree-seeking students begins November 8, 2018. Contact Justina Dodson at: justina@wustl.edu for more information.

Registration Instructions for Students Outside of MP Programs
Before registering, current Washington University students must obtain appropriate consent from their division/department. Students outside of the MP programs must have permission from the MP Program to register. Please contact justina@wustl.edu prior to registration.

Spring 2019 Academic Calendar
Spring courses begin on January 14, 2019. Registration opens on November 8, 2018. The last day to drop a class and receive a full refund is January 29, 2019.

MP Program Leadership
Rao Khan, PhD
Program Director
Tiezhi Zhang, PhD
Program Co-Director

Further Information
For more information and the complete academic calendar, please visit our website at: https://radonc.wustl.edu/
For specific questions about the Medical Physics degree or curriculum, please contact justina@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 MSOT degree prepares generalist clinicians with the knowledge and skills to work as direct care providers, consultants, educators, managers and advocates for clients. 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 Kniepman, 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 Clinical Doctorate of Occupational Therapy (OTD) is a professional degree offered by the School of Medicine. The OTD prepares graduates beyond the master's degree with in-depth knowledge in a specific area such as practice, advocacy, policy, education, research and program development. The curriculum fulfills all of the 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.

**Academic Calendar 2019-2020**

**Fall Semester**

- Orientation: Aug 21 - 23
- Classes Begin: Aug 26
- Labor Day: Sep 2
- Thanksgiving Break: Nov 27 - 29
- Finals: Dec 11 - 18
- Winter Break: Dec 19 - Jan 13

**Spring Semester**

- Classes Begin: Jan 13
- MLK Holiday: Jan 21
- Spring Break: Mar 9 - 13
- Finals: Apr 29 - May 6
- Graduation: May 15

The program in Occupational 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.

**Contact Persons**

- Lisa Connor Ph.D, MSOT, OTR/L: (314) 286-1600
- Shannon Eckhoff: Academic Systems Manager (314) 286-1600

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

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**Physical Therapy Program**

**Physical Therapy Program (M02)**

The Program in Physical Therapy is located at 4444 Forest Park Avenue - at the corner of Forest Park and Newstead Avenues. Please refer to the Medical Center map.

**Contact Information**

Phone: (314) 286-1400
Fax: (314) 286-1410
Web: http://pt.wustl.edu
Email: PTAdmissions@email.wustl.edu

**Academic Calendar 2019-2020**

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

- 1st Year Orientation: Aug 13 - 16
- 2nd Year Orientation: Aug 15-16
- 1st Year Classes Begin: Aug 19
- 2nd Year Classes Begin: Aug 19
- Labor Day: Sep 3
- Fall Break: Oct 7 - 8
- Thanksgiving Break: Nov 27 - 29
- Finals: Dec 9 - 13
- Winter Break: Dec 16 - Jan 3

**3rd Year Class:**

- CE III: Jul 8 - Sep 13
- CE IV: Sep 30 - Dec 20

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

- 1st Year Class: Jan 6 - May 1
- Classes Begin: Jan 6
- MLK Holiday: Jan 20
- Spring Break: Mar 2 - 6
- Finals: Apr 27 - May 1
- CE I: May 11 - Jul 3
- 2nd Year Class: Mar 9 - Jun 26
- CE II: Jan 6 - Feb 28
- MLK Holiday: Jan 20
- Spring Break: Mar 2 - 6
- Classes Begin: Mar 9
- Finals: Jun 22 - 26
- 3rd Year Class: Jan 6 - May 5
- Classes Begin: Jan 6
- MLK Holiday: Jan 20
- Spring Break: Mar 2 - 6
- Finals: May 4 - 5
- Graduation: May 15

**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, Division Director of Education, or the Associate Director for Professional Education.

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**Population Health Sciences**

**Master of Population Health Sciences (M19)**

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. 2019 – 2020 applications are due January 11, 2019.

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
### ACADEMIC CALENDAR 2019-2020

<table>
<thead>
<tr>
<th>Month</th>
<th>Events</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>June 2019</strong></td>
<td>New 3rd year class: Clinic Orientation</td>
</tr>
<tr>
<td></td>
<td>3rd, 4th year classes: Academic year begins</td>
</tr>
<tr>
<td><strong>July 2019</strong></td>
<td>Independence Day holiday begins, 5pm</td>
</tr>
<tr>
<td><strong>August 2019</strong></td>
<td>1st year class: Orientation, matriculation &amp; initial payment of tuition/fees</td>
</tr>
<tr>
<td></td>
<td>1st year classes: Academic year Begins</td>
</tr>
<tr>
<td><strong>September 2019</strong></td>
<td>Labor Day holiday begins at 5 p.m.</td>
</tr>
<tr>
<td><strong>November 2019</strong></td>
<td>Thanksgiving Day holiday begins, 5pm</td>
</tr>
<tr>
<td></td>
<td>Thanksgiving Day Observance</td>
</tr>
<tr>
<td><strong>December 2019</strong></td>
<td>Holiday for all classes</td>
</tr>
<tr>
<td><strong>January 2020</strong></td>
<td>All classes: Winter recess begins, 5pm</td>
</tr>
<tr>
<td><strong>March 2020</strong></td>
<td>1st &amp; 2nd year classes: Spring break begins</td>
</tr>
<tr>
<td></td>
<td>5pm</td>
</tr>
<tr>
<td><strong>April 2020</strong></td>
<td>3rd and 4th year classes: Spring break begins</td>
</tr>
<tr>
<td></td>
<td>5pm</td>
</tr>
<tr>
<td><strong>May 2020</strong></td>
<td>All classes: Classes resume, 8am</td>
</tr>
<tr>
<td></td>
<td>2nd year class: Academic year ends, 5pm</td>
</tr>
</tbody>
</table>

### 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 or 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, CARES 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

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.

### Tuition Payment Deadlines

<table>
<thead>
<tr>
<th>Class</th>
<th>Initial Level</th>
<th>Payment</th>
<th>Final Level</th>
<th>Payment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Year</td>
<td>Aug 5, 2019</td>
<td>Jan 1, 2020</td>
<td>Mar 2, 2020</td>
<td>Jan 1, 2020</td>
</tr>
<tr>
<td>2nd Year</td>
<td>Aug 23, 2019</td>
<td>Jan 1, 2020</td>
<td>Mar 2, 2020</td>
<td>Jan 1, 2020</td>
</tr>
<tr>
<td>3rd &amp; 4th Year</td>
<td>Jun 21, 2019</td>
<td>Jan 1, 2020</td>
<td>Mar 2, 2020</td>
<td>Jan 1, 2020</td>
</tr>
</tbody>
</table>

**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.
Inquiries and correspondence should be directed to:
Electives 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 [https://md.wustl.edu/academics/visiting-students/how-to-apply/](https://md.wustl.edu/academics/visiting-students/how-to-apply/) 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: [https://md.wustl.edu/academics/curriculum/electives/level-fourth-year/](https://md.wustl.edu/academics/curriculum/electives/level-fourth-year/)

**Anatomy and Neurobiology**
- Level 800:
  - Advanced Dissection
- Level 900:
  - Research Opportunities

**Anesthesiology**
- Level 800:
  - Anesthesia
  - 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 Mantz 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
  - 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 Undererved
  - 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
  - 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
  - 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-Geneics
  - 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 Extremity For Visiting Students Only
  - Orthopaedic Surgery – Foot/Angle 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
  - Practice 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 Hospital
- 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
  - Psychiatric 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