PROGRAMS
Applied Health Behavior Research (M88)
Audiology & Communication Sciences (M89)
Biomedical Informatics (M18)
Biostatistics and Genetic Epidemiology (M21)
Clinical Investigation (M17)
Medical Physics (M91)
Occupational Therapy (M01)
Physical Therapy-Grad (M02)
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 (full-or part-time)
  - 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. 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.

Academic Calendar
Fall courses begin on August 24, 2020. Registration for Fall 2020 opens on April 15, 2020. The last day to drop a class and receive a full refund is September 11, 2020.

For the full AHBR academic calendar, please visit https://crtc.wustl.edu/courses/class-list/academic-policies/

AHBR Program Leadership
Amy McQueen, PhD, Program Director

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 (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.
**BIOMEDICAL INFORMATICS**

**BIOMEDICAL INFORMATICS (M18)**

The graduate degree programs in biomedical informatics are housed in the Institute for Informatics (I2)

**Master of Science in Biomedical Informatics (MS BMI)**
The MS in Biomedical Informatics (BMI) provides comprehensive and competency-based training in core BMI theories and methods for:

1) Recent college graduates with backgrounds in the biological and/or computational sciences

2) In-career learners with a broad range of experiences in biomedicine/biobsciences mathematics, physical or computer information sciences or engineering, and cognitive and/or social sciences.

The 36-unit degree program offers grounded theory and a broad range of applied skills for three separate tracks:

1) Translational bioinformatics and clinical research informatics (TBI/CRI)
2) Clinical Informatics (CI)
3) Bioinformatics (BI).

Students can personalize approved electives and competency courses based on their chosen track and educational background. The degree can be completed full or part time and it will culminate with a thesis or capstone project.

**Certificate in Biomedical Informatics**

To earn a certificate in Biomedical Informatics, scholars are required to select a track from above and complete 16 credits of core curriculum.

**Core Courses**

All students in both the certificate and the MS program will be expected to take the core classes listed below (with the exception of the research credit hours)

- M18-5302 Biomedical Informatics I: Foundations
- M18-5303 Biomedical Informatics II: Methods
- M18-5203 Advanced Topics in Biomedical Research
- M18-5200 Biomedical Informatics Journal Club
- M18 5304 Introduction to Biomedical Computing I

**Registration Instructions for MS and Certificate in Biomedical Informatics Candidates**
The MS Program Manager and Academic Advisor manage BMI enrollment. Enrollment is subject to space availability. Registration for degree-seeking MS students begins September 1, 2020. Application deadline is February 1, 2021. Contact Jeanne Silvestrini at jsilvestrini@wustl.edu for more information.

Registration for the Certificate in Biomedical Informatics opens September 1, 2020. Application deadline is July 1, 2021.

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**Registration Instructions for Students Outside of BMI Programs**

Students outside of the BMI programs must have permission from the BMI Program to register. Please contact krussela@wustl.edu prior to registration.

**2020-2021 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

Program Manager

**Further Information**

For more information please visit our website at: [https://informatics.wustl.edu](https://informatics.wustl.edu)

For specific questions about the Biomedical Informatics MS and certificate programs, please contact Jeanne Silvestrini at jsilvestrini@wustl.edu

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**BIOSTATISTICS & GENETIC EPIDEMIOLOGY**

The Division of Biostatistics offers two master degree programs and a certificate in Biostatistics, as well as a post-doctoral master’s degree and certificate 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. Please refer to the map of the School of Medicine.

**Master of Science in Biostatistics and Data Science (MSBDS)**

S tudents outside of the BMI programs must have permission from the BMI Program to register. Please contact krussela@wustl.edu prior to registration.

**2020-2021 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

Program Manager

**Further Information**

For more information please visit our website at: [https://informatics.wustl.edu](https://informatics.wustl.edu)

For specific questions about the Biomedical Informatics MS and certificate programs, please contact Jeanne Silvestrini at jsilvestrini@wustl.edu

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**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

Registration Instructions for MS in Clinical Investigation candidates
The MSCI Curriculum Coordinator manages student registration. Enrollment is subject to space available. Applications are open September 15 – November 1 for January start date, and January 1 – April 15 for Summer or Fall start date. Contact crtmisci@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 crtmisci@email.wustl.edu prior to registration.

Fall 2020 Academic Calendar
Fall courses begin on August 24, 2020. Registration opens on April 15, 2020. The last day to drop a class and receive a full refund is September 11, 2020.

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

Further Information
For more information, please visit our website at: https://crtc.wustl.edu/programs/degrees/msci/

For specific questions about the Clinical Investigation degree or curriculum, please contact crtmisci@email.wustl.edu.

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 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.

BIOI 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 April 9, 2020. 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.

Fall 2020 Academic Calendar
Fall courses begin on August 24, 2020. Registration opens on April 9, 2020. The Program Coordinator will register all Masters and Certificate students for required courses.

Medical Physics
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
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 (314) 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**
Lisa Connor, PhD, OTRL
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 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

**Academic Calendar 2020-2021**

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

1st Year Orientation  Aug 11 - 14  
2nd Year Orientation  Aug 13 - 14  
1st Year Classes Begin  Aug 17  
2nd Year Classes Begin  Aug 17  
Labor Day  Sep 7  
Fall Break  Oct 5 - 6  
Thanksgiving Break  Nov 24 - 27  
Winter Break  Dec 21 - Jan 4  
3rd Year Class:  
   CE III -  Jul 6 - Sep 11  
   CE IV -  Sep 28 - Dec 18  

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

1st Year Class:  
   Jan 4 - Apr 30  
   Classes Begin  Jan 4  
   MLK Holiday  Jan 18  
   Spring Break  Mar 1 - 5  
   Finals  Apr 26 - 30  
   CE I  May 10 - Jul 2  
2nd Year Class:  
   Mar 8 - Jun 25  
   CE II  
   Jan 4 - Feb 26  
   MLK Holiday  Jan 18  
   Spring Break  Mar 1 - 5  
   Classes Begin  Mar 8  
   Finals  Jun 21 - Jun 25  
3rd Year Class:  
   Jan 4 - May 4  
   Classes Begin  Jan 4  
   MLK Holiday  Jan 18  
   Spring Break  Mar 1 - 5  
   Finals  May 3 - 4  
   Graduation  May 21  

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 M62.

#### 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.

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.

**2020-2021 MPHS Courses Calendar**

<table>
<thead>
<tr>
<th>Session Fall I: August 24, 2020 to October 16, 2020</th>
<th>Session Fall II: October 19, 2020 to December 11, 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 2020</td>
<td>Winter 2021</td>
</tr>
<tr>
<td>Session Spring I: January 19, 2021 to March 12, 2021</td>
<td>Session Spring II: March 15, 2021 to May 10, 2021</td>
</tr>
<tr>
<td>Spring 2021</td>
<td></td>
</tr>
<tr>
<td>Session Fall I: October 19, 2020 to December 11, 2020</td>
<td></td>
</tr>
<tr>
<td>MPHS Program Leadership</td>
<td></td>
</tr>
<tr>
<td>Graham Colditz, MD, DrPH, Program Director</td>
<td></td>
</tr>
</tbody>
</table>

Further information available at [www.mphs.wustl.edu](http://www.mphs.wustl.edu) or by contacting Blanka Hodzic, MPHS Program Coordinator, bhodzic@wustl.edu or (314) 286-0881.

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### 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. 2020 – 2021 applications are due March 27, 2020.

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).

### DOCTOR OF MEDICINE PROGRAM

**ACADEMIC CALENDAR 2020 - 2021**

<table>
<thead>
<tr>
<th>June 2020</th>
<th>New 3rd year Students: Clinic Orientation</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 2020</td>
<td>Independence Day holiday begins at 5pm</td>
</tr>
<tr>
<td></td>
<td>Independence Day Observance</td>
</tr>
<tr>
<td></td>
<td>Academic year begins for Phase 1 Students – Initial Orientation/ tuition and fee payment due for Phase 1 Students</td>
</tr>
<tr>
<td>August 2020</td>
<td>3, 4th year Students: Academic year begins</td>
</tr>
<tr>
<td></td>
<td>17 Academic year begins for 2nd Year Students</td>
</tr>
</tbody>
</table>

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### Schedule of Clerkship & Elective Intervals

<table>
<thead>
<tr>
<th>Weeks</th>
<th>From</th>
<th>To</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-4</td>
<td>Aug 1st</td>
<td>Aug 31st</td>
<td>2020</td>
</tr>
<tr>
<td>5-8</td>
<td>Aug 31st</td>
<td>Sep 27th</td>
<td>2020</td>
</tr>
<tr>
<td>9-12</td>
<td>Sep 28th</td>
<td>Oct 25th</td>
<td>2020</td>
</tr>
<tr>
<td>13-16</td>
<td>Oct 26th</td>
<td>Nov 22nd</td>
<td>2020</td>
</tr>
<tr>
<td>17-20</td>
<td>Nov 23rd</td>
<td>Dec 20th</td>
<td>2020</td>
</tr>
<tr>
<td>21-24</td>
<td>Jan 4th</td>
<td>Jan 31st</td>
<td>2021</td>
</tr>
<tr>
<td>25-28</td>
<td>Feb 1st</td>
<td>Feb 28th</td>
<td>2021</td>
</tr>
<tr>
<td>29-32</td>
<td>Mar 1st</td>
<td>Mar 28th</td>
<td>2021</td>
</tr>
<tr>
<td>33-36</td>
<td>Mar 29th</td>
<td>Apr 25th</td>
<td>2021</td>
</tr>
<tr>
<td>37-40</td>
<td>Apr 26th</td>
<td>May 23rd</td>
<td>2021</td>
</tr>
</tbody>
</table>

### Tuition Payment Deadlines

<table>
<thead>
<tr>
<th>Class</th>
<th>Initial</th>
<th>Final</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Year</td>
<td>Jul 13, 2020</td>
<td>Jun 8, 2021</td>
</tr>
<tr>
<td>2nd Year</td>
<td>Aug 21, 2020</td>
<td>Jun 8, 2021</td>
</tr>
<tr>
<td>3rd &amp; 4th Year</td>
<td>Jun 26, 2020</td>
<td>Jun 8, 2021</td>
</tr>
</tbody>
</table>

### 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 be considered an integral part of 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:

**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 [https://md.wustl.edu/academics/visiting-students/](https://md.wustl.edu/academics/visiting-students/) 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-fourth-year/](https://md.wustl.edu/academics/curriculum/electives-fourth-year/)

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

#### Anesthesiology
- (Level 800)
- Anesthesiology
- Anesthesia for Neurosurgery