APPLIED HEALTH BEHAVIOR RESEARCH PROGRAM

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

Master of Science in AHBR
A 33-credit multidisciplinary, skills-based program designed for working professionals pursuing studies on a part-time basis, and full-time graduate students. A one year research intensive option can be completed in three semesters. The AHBR program focuses on developing the applied skills needed to manage health behavior programs and research projects in academic, clinical, and community settings. Two concentrations are offered:
- Health Behavior Research (HBR)
  - HBR 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. Registration for degree-seeking students begins November 8, 2018. 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 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.

For more information, please visit our website https://crtc.wustl.edu/courses/class-list/academic-policies/
**BIOMEDICAL INFORMATICS**

**BIOMEDICAL INFORMATICS (M18)**

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

**Master of Science in Biomedical Informatics (M5 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/biosciences 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:

| M18-5302 | Biomedical Informatics I: Foundations |
| M18-5303 | Biomedical Informatics II: Methods |
| M18-xxxx | Advanced Topics in Biomedical Research |
| M18-5200 | Biomedical Informatics Journal |
| M17-510  | Ethical and Legal Issues in Clinical Research |

Students will also take the following:

- Biomedical Informatics Capstone
- One additional elective

**Registration Instructions for MS and Certificate in Biomedical Informatics Candidates**

The I2 Program Manager and Academic Advisor manage BMI enrollment. Enrollment is subject to space availability. Registration for degree-seeking students begins November 8, 2018. Contact Andrea Krussel at krussela@wustl.edu for more information.

**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.

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**2018-2019 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/

For specific questions about the Biomedical Informatics MS and certificate programs, please contact Andrea Krussel at krussela@wustl.edu

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**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, 5th Floor. Please refer to the map of the School of Medicine.

**Master of Science in Biostatistics (MSIBS)**

July 3, 2018–December 19, 2019

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 Genetic Analysis

Entry for new students begins in the summer semester.

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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.

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**2018-2019 Academic Calendar**

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

**Summer 2018 Academic Calendar**

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 from July 3-6, 2018.

- 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.

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For more information, please visit https://informatics.wustl.edu or contact the Program Manager for further information.
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 coursework 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 of 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 MSCI Curriculum Coordinator manages student registration. Enrollment is subject to space availability. Registration for degree-seeking students begins November 8, 2018. Contact crtcmsci@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 crtcmsci@email.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.

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://crtc.wustl.edu/programs/degrees/msci/
For specific questions about the Clinical Investigation degree or curriculum, please contact crtcmsci@email.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.

OCCUPATIONAL THERAPY PROGRAM

PHYSICAL THERAPY PROGRAM

Academic Calendar 2018-2019
Fall Semester (1st, 2nd Year Classes)
- 1st Year Orientation Aug 14 - 17
- 2nd Year Orientation Aug 16
- 1st Year Classes Begin Aug 20
- 2nd Year Classes Begin Aug 17
- Labor Day Sep 3
- Fall Break Oct 1 - 2
- Thanksgiving Break Nov 21 - 23
- Finals Dec 10 - 14
- Winter Break Dec 17 - Jan 4
- 3rd Year Class: CE III - Jul 9 - Sep 14
- CE IV - Oct 1 - Dec 21

Spring Semester (1st, 2nd, 3rd Year Classes)
- 1st Year Class: Jan 7 – May 3
- Classes Begin Jan 7
- MLK Holiday Jan 21
- Spring Break Mar 4 – 8
- Finals Apr 29 – May 3
- CE I May 13 – Jul 5
- 2nd Year Class: Mar 11 – Jun 28
- CE II Jan 7 - Mar 1
- MLK Holiday Jan 21
- Spring Break Mar 4 – 8
- Classes Begin Mar 11
- Finals Jun 24 – 28
- 3rd Year Class: Jan 7 – May 7
- Classes Begin Jan 7
- MLK Holiday Jan 21
- Spring Break Mar 4 – 8
- Finals May 6 - 7
- Graduation May 17

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.

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. 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 and according to their home program processes; enrollment is subject to instructor approval.

2018-2019 MPHS Courses Calendar

Fall 2018
Session Fall I: August 27, 2018 to October 19, 2018
Session Fall II: October 22, 2018 to December 19, 2018

Winter 2019
Session Winter: January 7, 2019 to January 11, 2019

Spring 2019
Session Spring I: January 14, 2019 to March 8, 2019
Session Spring II: March 11, 2019 to May 3, 2019

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

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

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

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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.

2018-2019 MPHS Courses Calendar

Fall 2018
Session Fall I: August 27, 2018 to October 19, 2018
Session Fall II: October 22, 2018 to December 19, 2018

Winter 2019
Session Winter: January 7, 2019 to January 11, 2019

Spring 2019
Session Spring I: January 14, 2019 to March 8, 2019
Session Spring II: March 11, 2019 to May 3, 2019

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

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

DOCTOR OF MEDICINE PROGRAM

ACADEMIC CALENDAR 2018-2019

June 2018
14 New 3rd year class: Clinic Orientation
18 3rd, 4th year classes: Academic year begins

July 2018
3 Independence Day holiday begins, 5pm
4 Independence Day Observance

August 2018
6 1st year class: Orientation, matriculation & initial payment of tuition/fees
7 1st year classes: Academic year Begins
20 2nd year classes: Academic year Begins

September 2018
2 Labor day holiday begins at 5 p.m.
3 Labor Day Observance

November 2018
21 Thanksgiving Day holiday begins, 5pm
22 Thanksgiving Day Observance
23 Holiday for all classes

December 2018
21 All classes: Winter recess begins, 5pm

January 2019
7 All classes: Winter recess ends and classes resume, 8am
20 Martin Luther King Day holiday begins, 5pm
21 Martin Luther King Day Observance

March 2019
29 1st & 2nd year classes: Spring break begins, 5pm

April 2019
4 3rd and 4th year classes: Spring break begins at 5 p.m.
8 All classes: Classes resume, 8am

May 2019
3 2nd year class: Academic year ends, 5pm
5 Graduating students: Academic year ends, 5pm
17 Commencement (Friday)
26 Memorial Day holiday begins, 5pm
27 Memorial Day Observance
31 1st year class: Academic year ends, 5pm.moves into next 2 lines up by 31st

Schedule of Clerkship & Elective Intervals

Weeks 1-4
June 18 - Jul 15
2018

Weeks 5-8
Jul 16 – Aug 12
2018

Weeks 9-12
Aug 13 - Sep 9
2018

Weeks 13-16
Sep 10 – Oct 7
2018

Weeks 17-20
Oct 8 – Nov 4
2018

Weeks 21-24
Nov 5 – Dec 2
2018

Weeks 25-28
Dec 3 – Jan 13
2018-19

(Winter recess 5pm (12/21-1/6)

Weeks 29-32
Jan 14 - Feb 10
2019

Weeks 33-36
Feb 11 - Mar 10
2019

Weeks 37-40
Mar 11 – Apr 7
2019

Weeks 41-44
Apr 8 – May 5
2019

Weeks 45-48
May 6 – May 31
2019

Tuition Payment Deadlines

Class Initial Final
Level Payment Payment
1st Year Aug 6, 2018 Jan 11, 2019
2nd Year Aug 24, 2018 Jan 11, 2019
3rd & 4th Year Jun 22, 2018 Jan 11, 2019

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

- 4 - MEDICINE

- 4 - MEDICINE

- 4 - MEDICINE

- 4 - MEDICINE

- 4 - MEDICINE
Registration Procedures for Medical Students

Due to the structured nature of the program leading to the degree of 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.

**Availablity of Medical Classes to Students Not Admitted to the Doctor of Medicine Program**

Registration for the following courses is open to students outside the Doctor of Medicine degree program only where noted in course descriptions. If all course prerequisites are met, and always with approval of the course master. 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.

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**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, 1998, the Medical Board of California, Assembly Bill 3497 added to Section 2089.5 of the Business and Professions Code a new requirement for four weeks of undergraduate clinical training in family medicine. This new family medicine requirement applies to all California licensing applicants who graduate from medical school after May 1, 1998.

**Inquiries and correspondence should be directed to:**

**Electives Office**

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 600 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/

**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

**General**

(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 – Hospitlist

Clinical Monitoring

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

Intensive Internal Medicine/Oncology-Firm

Intensive Care Medicine – BJ North

Intensive ECG Interpretation

Medical Intensive Care Medicine

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 800)

Research Opportunities

**Neurological Surgery**

(Level 800)

Neurosurgery

(Level 900)

Research Opportunities
<table>
<thead>
<tr>
<th>Medicine</th>
<th>Pediatrics</th>
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| 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-Genececs  
Special Topics in Reproductive Health  
(Lvvel 900) Research Opportunities | Pediatric Lung Transplantation  
Pediatric Pulmonary Subinternship  
Pediatric Renal Disease  
Pediatric Rheumatology  
Quality of Care Through Health Informatics  
Subinternship in Pediatric Hematology and Oncology  
(Lvvel 900) Research Opportunities |
| Ophthalmology and Visual Sciences  
(Level 800)  
Ophthalmology  
(Lvvel 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  
(Lvvel 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  
(Lvvel 900) Research Opportunities | Radiation Oncology  
(Level 800)  
Clinical Radiation Oncology  
(Lvvel 900) Research Opportunities |
| Otolaryngology  
(Level 800)  
Ambulatory Otolaryngology For the Primary Care Physician  
General Otolaryngology  
Neurotology  
Otolaryngology  
Pediatric Otolaryngology  
Practicum in Adult Clinical Audiology  
(Lvvel 900) Research Opportunities | Radiology  
(Level 800)  
Clinical Nuclear Medicine  
General Radiology  
Interventional Radiology  
(Lvvel 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  
(Lvvel 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  
Minimal 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  
(Lvvel 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 | Additional Electives  
(Level 800)  
Biomedical Innovation and Entrepreneurship  
Fourth Year Capstone Course  
The Business of Medicine  
(Lvvel 900) Research Opportunities |
| Research Opportunities | |