## APPLIED HEALTH BEHAVIOR RESEARCH PROGRAM

### Master of Science in AHBR

A 33-credit multidisciplinary, skills-based program designed for working professionals pursuing studies on a part-time basis, and full-time graduate students. A one-year research intensive option can be completed in three semesters. The AHBR program focuses on developing the applied skills needed to manage health behavior programs and research projects in academic, clinical, and community settings. Two concentrations are offered:

- Health Behavior Research (HBR)
- HBR Option
- HBR Research Intensive Option

Health Education, Program Planning & Evaluation (HEPPE)

There is no thesis or practicum requirement for this program.

### Graduate Certificate in Health Behavior Planning and Evaluation

A 15-credit hour program focused on the key applied and theoretical concepts in health behavior, and processes for managing program development and evaluation activities in clinical settings.

### Registration Instructions for students in AHBR graduate programs

The AHBR Project Manager manages student registration. Enrollment is subject to space available.

### Registration Instructions for Students Outside of AHBR Programs

Before registering, current Washington University students must obtain appropriate consent from their division/department. Students outside of the AHBR program must have permission from the AHBR Program to register. Please contact the Project Manager in the CRTC prior to registration.

### Spring 2018 Academic Calendar

Spring courses begin on January 16, 2018. Registration opens on October 9, 2017. The last day to drop a class and receive a full refund is January 30, 2018.

### AHBR Program Leadership

Amy McQueen, PhD, Program Director
Registration Instructions for M.S. Candidates
The degree programs are structured and sequential. Students cannot, therefore, register online but must register with the Biostatistics Program Manager.

Registration Instructions for students outside the degree programs
Before registering, current Washington University students must obtain appropriate consent from their division/department. Students outside the degree/certificate programs enrolling in individual courses must also have permission of the course master. Contact the Biostatistics Program Manager to initiate.

Further Information
For the Master’s Degree in Biostatistics, see our website at https://biostatistics.wustl.edu/Pages/Main.aspx or contact the Program Manager for further information: telephone 314-362-1364 or email biostat@msibs@email.wustl.edu.

CLINICAL INVESTIGATION PROGRAM
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 Curriculum Coordinator manages student registration. Enrollment is subject to space available.

Registration for degree-seeking students begins November 9, 2017.

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

Spring 2018 Academic Calendar
Spring courses begin on January 16, 2018. Registration opens on November 9, 2017. The last day to drop a class and receive a full refund is January 30, 2018.

MSCI Program Leadership
David K. Warren, MD, MPH
Program Director

Further Information
For more information and the complete academic calendar, please visit our website: https://crp.wustl.edu/courses/class-list/msci-courses/. For specific questions about the Clinical Investigation degree or curriculum, please contact Suzie Fragale, Curriculum Coordinator, fragale@wustl.edu.

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

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

The Doctor of Occupational Therapy (OTD) is a professional degree offered by the School of Medicine providing students the opportunity to focus their OT studies in one of six areas of concentration: Productive Aging, Children & Youth, Rehabilitation Science, Neurorehabilitation, Work & Industry, or Social Participation and the Environment. This is a three and one-half year curriculum which fulfills all requirements necessary to sit for the national certification exam for occupational therapists.

Registration Instructions

Enrollment in any of the graduate level courses requires acceptance into the Program in Occupational Therapy or approval of the coursemaster. Students wishing to enroll should contact the program at 286-1600. Registration of matriculated graduate students is performed on-line by the administrative staff.

The Academic Calendar

The Program in Occupational Therapy follows the calendar of the College of Arts and Sciences.

Contact Persons

M. Carolyn Baum, Ph.D., OTR/L, FAOTA
Elias Michael Director
(314) 286-1600

Shannon Eckhoff
Academic Systems Manager
(314) 286-1600

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

### Academic Calendar 2016-2017

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

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

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

- **1st Year Class:** Jan 9 – May 5
- **Classes Begin** Jan 9
- **MLK Holiday** Jan 16
- **Spring Break** Mar 6 - 10
- **Finals** May 1 - 5
- **CE I** May 16 - Jul 7
- **2nd Year Class:**
  - **Mar 7 – Jun 24
- **CE II** Jan 9 - Mar 5

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

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

### DEGREE PROGRAMS –

**Doctor of Physical Therapy**

An entry-level, full-time program that focuses on diagnosis and evidence-based practice of physical therapy. This program refines scientific and biomedical knowledge incorporating additional clinical experiences and coursework to prepare students for the practice of physical therapy. This degree is offered through the School of Medicine and courses are coded M02.

**Course Restrictions**

Physical Therapy courses, with the exception of PT 5001 Independent Study, are open ONLY TO INDIVIDUALS ENROLLED IN THE PROGRAM IN PHYSICAL THERAPY (GP).

**Registration Information**

The Program in Physical Therapy is a structured three year curriculum for the Doctor of Physical Therapy degree. Registration for physical therapy students is NOT completed on-line. Withdrawal from required courses must be approved by either the program’s Director of the Associate Director for Professional Education.

### POPULATION HEALTH SCIENCES

**MASTER OF POPULATION HEALTH SCIENCES**

The Master of Population Health Sciences (MPHS), offered by Washington University School of Medicine, is designed as a ten-month, full-time degree program that meets the needs of clinicians seeking training in population-based research methods. Its quantitative curriculum emphasizes the role of epidemiology and biostatistics in approaching clinical effectiveness and outcomes research. The MPHS does not require a research thesis/capstone. Instead, the program uses applied coursework to focus on the long-term application of skills. Using topics relevant to their careers and interests, the applied coursework allows MPHS students to practice the art of developing research study protocols, performing systematic reviews, designing epidemiologic studies and more. The MPHS program currently offers three concentrations: Clinical Epidemiology, Health Services and Psychiatric and Behavioral Health Sciences.

Successful applicants will have a strong academic record and relevant academic preparation with particular emphasis on quantitative skills. Identified clear career goals that correlate to MPHS program competencies, and completed (or in the process of completing) a clinical training program at the doctoral level. 2017 – 2018 applications are due January 13, 2017.

MPHS students take seven required core courses; an introduction to SAS, a sequence of three courses in epidemiology, two courses in biostatistics, and research ethics. Eligible elective credits include courses offered through the MPHS program as well as other population health-related graduate courses offered at Washington University (program director approval required).

Graduating MPHS students will have demonstrated skill in program competencies including study design, program evaluation, data analysis (theory and application), use of statistical software packages (e.g. SAS), calculating rates, meta-analysis, statistical modeling, clinical trials, and observational studies.

The academic year is divided into four intensive 8-week quarters designed to allow full-time MPHS students to complete the program in ten months. Part-time study is allowed but students are expected to complete the degree within three years of matriculation. Students interested in part-time study need approval of the program director.

The MPHS Program Coordinator coordinates MPHS student registration. All other students register through and according to their home program processes; enrollment is subject to instructor approval.

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

MPHS Program Leadership

Graham Colditz, MD, DrPH, Program Director

Further information available at www.mphs.wustl.edu or by contacting Joyce Linn, MPHS Program Coordinator, linnj@wudosis.wustl.edu or (314) 362-5501.
ACADEMIC CALENDAR 2017-18

June 2017
15 & 16 New 3rd year class: Clinic Orientation
19 3rd, 4th year classes: Academic year begins

July 2017
3 Independence Day holiday begins, 5pm
4 Independence Day Observance (Tues)

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

September 2017
3 Labor day holiday begins at 5 p.m.
4 Labor Day Observance (Monday)

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

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

January 2018
8 All classes: Winter recess ends and classes resume, 8am
14 Martin Luther King Jr. holiday begins, 5pm
15 Martin Luther King Jr. holiday observance

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

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

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

June 2018
1 1st year class: Academic year ends, 5 p.m.
4 3rd year class: Academic year and Clinical clerkships end, 5pm

Schedule of Clerkship & Elective Intervals

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

Tuition Payment Deadlines:

- Class
- Initial
- Final

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

NOTE: The beginning and ending dates of each academic term will be published with individual class schedules.

Doctor of Medicine Program

The School of Medicine is located in the Washington University School of Medicine 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 following courses is open to students 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.

NOTE: The elective year allows the student to develop a flexible program which should be of great value and interest in the middle of an eight- to ten-year period of formal education. This flexible year occurs at a crucial time, helps the student decide on the rest of his/her formal education and helps focus productively upon already established interests. It also enables students to benefit from the wide range of specialized knowledge and skills found in the faculty. As there is not enough time for each student to be introduced to each of today’s areas of specialization, the elective program permits the student to select, according to desire, areas to explore in depth.

Requirements

To qualify for the degree of Doctor of Medicine at Washington University School of Medicine, students are required to satisfactorily complete a minimum of 32 weeks of approved electives in the fourth (final) year, in addition to a required four-week Capstone course. The fourth year encompasses a 44-week time block. At least 24 of the 36 required weeks must be taken on campus in the Washington University School of Medicine elective courses described in this catalog. Most students utilize most of the elective year for clinical electives. Clinical electives are generally of four weeks duration. Research electives are a minimum six weeks, and a maximum of 12 weeks duration. Special study electives are typically of four weeks duration. Reading electives may range from 1-4 weeks, but a student may not spend more than 4 weeks on reading electives.

NOTE: You should be aware that on January 1, 1996, the Medical Board of California, Assembly Bill 3497 added to Section 2089.5 of the Business and Professions Code a new requirement for four weeks of undergraduate clinical training in family medicine. This new family medicine requirement applies to all California licensing applicants who graduate from medical school after May 1, 1998.

Inquiries & correspondence should be directed to:
Elections Office
Office of Medical Student Education
Washington University School of Medicine
660 S. Euclid Avenue, Box 8214
St. Louis, Missouri 63110
(314) 362-6838
Medical students participating in any of the electives described in this booklet will be providing services as members of a team under the direct supervision of an attending physician or senior resident. While Washington University School of Medicine strives to provide each student with maximum responsibility and experience, students will be supervised in their efforts at all times until they are fully licensed.

Visiting students should go to 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 Fourth Year Electives Canvas page for further details regarding the elective year and course offerings.

Anatomy and Neurobiology (Level 800)
Advanced Dissection
Research Opportunities

Anesthesiology (Level 800)
Anesthesia
Anesthesia for Neurosurgery
Cardiothoracic Anesthesiology
Cardiothoracic Critical Care
Critical Care
Obstetrical Anesthesia
Pain Management
Pain Management – Missouri Baptist Medical Center
Pediatric Anesthesia
Research Opportunities

Biochemistry and Molecular Biophysics (Level 800)
Research Opportunities

Cell Biology and Physiology (Level 900)
Research Opportunities

Developmental Biology (Level 900)
Research Opportunities

Genetics (Level 900)
Research Opportunities

Internal Medicine (Level 800)
Adult Allergy and Clinical Immunology
Ambulatory Care – Jacqueline Maritz Lung Center
Ambulatory Infectious Disease
Bone and Joint Infectious Disease Consult
Bone and Mineral Diseases
Bone Marrow Transplantation & Stem Cell Biology
Cardiac Arrhythmias and Electrophysiology
Clinical Cardiology – VA Hospital
Clinical Cardiovascular Medicine – Rolla, MO
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 - Oncology
Honors Medicine – VA Hospital
Inpatient Cardiology
Intensive Care Medicine – BJ 8300
Intensive ECG Interpretation
Medical Intensive Care
Medical Toxicology
Medicine Consult Service
Occupational/Environmental Medicine
Oncology – Inpatient Consult Service
Oncology/Oncopsychiatry
Palliative Care
Pediatric Dermatology
Pulmonary Clinic for the Underserved
Pulmonary Medicine, Barnes-Jewish Hospital
Pulmonary Medicine – VA Hospital
Rheumatology
Transplant Infectious Disease Consult
Wilderness Medicine
Research Opportunities

Molecular Microbiology (Level 900)
Research Opportunities

Neurology (Level 800)
Adult and Pediatric Epilepsy
Clinical Aspects of Aging and Dementia
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
Research Opportunities

Neurological Surgery (Level 800)
Neurosurgery
Research Opportunities

Obstetrics and Gynecology (Level 800)
GYN Female Pelvic Medicine & Reconstructive Surgery
Urogynecology/Reconstructive Surgery
GYN Oncology Sub internship
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-Gynecology
Special Topics in Reproductive Health
Research Opportunities

Ophthalmology and Visual Sciences (Level 800)
Ophthalmology
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/Antkle Surgery
Orthopaedic Surgery – Shoulder/Elbow Surgery
Orthopaedic Trauma
Reconstructive and Joint Preservation Surgery
Research Opportunities

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

Pediatrics (Level 800)
Antimicrobial Use, Resistance, and Stewardship
Clerkship in Rural Primary Care Pediatrics
Clinical Pediatric Pulmonary Medicine
General Pediatrics Subinternship – St. Louis Children’s Hospital
Genetics and Genomic Medicine
Newborn Medicine
Pediatric Asthma and Allergy
Pediatric Cardiac Catheterization
Pediatric Cardiology-Outpatient Service
Pediatric Critical Care Medicine
Pediatric Emergency Medicine
Pediatric Endocrinology and Diabetes
Pediatric Gastroenterology, Hepatology and Nutrition
Pediatric Infectious Diseases
Pediatric Lung Transplantation
Pediatric Pulmonary Subinternship
Pediatric Renal Disease
Pediatric Rheumatology
Subinternship in Pediatric Hematology and Oncology
Research Opportunities

Psychiatry (Level 800)
Child Psychiatry
Clinical Psychiatry-Impatient Psychiatric Service
Forensic Psychiatry
Interventional Psychiatry
Introduction to Eating Disorders
Outpatient Community Psychiatry
Psychiatry Consult Service
Schizophrenia Precursors and Prodromal States
Research Opportunities

Radiation Oncology (Level 800)
Clinical Radiation Oncology
Research Opportunities

Residency Programs
Washington University School of Medicine offers a number of residency programs.
Radiology
(Level 800)
Advanced Radiology
Clinical Nuclear Medicine
General Radiology
Interventional Radiology
Thoracic Imaging
(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 and 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
Introduction to Global Health
The Business of Medicine
(Level 900)
Research Opportunities