Department of Psychiatry

Instruction in psychiatry is given during the second, third and fourth years of the medical curriculum. Emphasis is on the teaching of psychiatry as a medical discipline, including the biological, social and psychological mechanisms and manifestations of psychiatric illness, as well as psychological reactions to other illnesses. Psychiatric disorders are common and disabling illnesses. An explosion of knowledge resulting from research in neuroscience, genetics and epidemiology is leading to exciting advances in understanding and treating these disorders. Our department is heavily involved in this research, and our didactic curriculum integrates current clinical information with research advances to help students develop the knowledge, skills and attitudes to recognize these illnesses and understand the basic principles of treatment.

William Greenleaf Eliot Division of Child & Adolescent Psychiatry

The Division of Child & Adolescent Psychiatry (http://wuchild.wustl.edu) offers a varied teaching program for medical students, residents in psychiatry, and fellows at St. Louis Children's Hospital and the Child Psychiatry Center. The center provides outpatient services to children with an array of mental disorders. Trainees are assigned to these various services, where they participate in diagnostic evaluations and see patients in treatment, under supervision of a fellow and attending physician.

Website: [http://www.psychiatry.wustl.edu](http://www.psychiatry.wustl.edu)

Degrees & Requirements

While the Department of Psychiatry does not offer its own degree, some of the department’s courses are open to students in the MD and MSTP (MD/PhD) programs. Further information about the MD and MSTP degrees can be found in the Degrees & Programs Offered (http://bulletin.wustl.edu/medicine/degrees) section of this Bulletin.

Research

Note to Students: There are always a number of research projects in the Department of Psychiatry. For additional information contact Dr. Rubin, 314-362-2462.

Andrey Anokhin, PhD
Genetics of the Brain, Behavior and Psychopathology
Central Institute for the Deaf (CID) Building
660 S. Euclid Ave., Suite 1
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Email (andrey@wustl.edu)

This research elective is intended for students interested in cognitive neuroscience, biological psychology, psychophysiology and behavior genetics. Dr. Anokhin's laboratory is investigating relationships between genes, brain and behavior in order to better understand the complex etiology of mental disorders. Our main focus is on “externalizing” the spectrum of psychopathology characterized by deficits in inhibitory self-regulation including ADHD, conduct disorder, and addictive behaviors. We are particularly interested in the intermediate phenotypes, or endophenotypes, mediating genetic risk for addiction such as impulsivity, risk taking, and abnormal affective processing of social-emotional information. In our laboratory-based studies with human volunteers, including twins, we investigate individual differences in brain activity using the recording of brain oscillations (event-related brain potentials, or ERPs) and functional magnetic resonance imaging (fMRI). For example, an ongoing longitudinal study of adolescent twins explores developmental and genetic determinants of brain activity related to reward and punishment processing, inhibitory control of behavior, and risk-taking to identify prospective predictors of substance abuse and associated behavioral problems. Another fMRI study using repeated assessments of the same individuals over time is focused on the identification of stable individual differences in brain activation related to inhibitory control, error monitoring, and reward processing that can be used as reliable phenotypes in genetic analyses. We are now starting a study that will examine twins who are discordant for adolescent marijuana use in order to identify the consequences of drug abuse for the brain, cognition and emotion, and distinguish them from pre-existing risk factors. Interested students will be able to learn a variety of methods used in these studies, such as the recording and analysis of brain oscillations, event-related neural dynamics, startle response, and autonomic measures, administration of neuropsychological and behavioral tests, and statistical analysis of data. Format of this research elective may include: (1) directed reading; (2) participation in laboratory experiments involving human subjects; (3) analysis of existing data from various research projects; (4) designing and piloting new behavioral experiments. Qualifications: Reliability and responsibility, ability to commit specified amount of time per week and work on schedule which can be negotiated on an individual basis, and good computer skills.

Deanna M. Barch, PhD
Cognitive and Affective Neuroscience of Schizophrenia and Depression
4525 Scott Avenue, Suite 1153K
Phone: 314-747-2160

Students may participate in the conduct of clinical studies of schizophrenia and depression. Involvement in clinical studies can include training and experience in interviewing psychiatric patients, or gaining experience in the techniques of assessing cognitive and emotional function using behavioral and brain imaging methods.
Laura Jean Bierut, MD
Maternity Building
Phone: 314-362-2544
This research elective will focus on analyzing data from high-risk studies of smoking and other addictions. Students will have the opportunity to examine genetic and environmental factors that place some at risk for developing nicotine, alcohol and other substance dependence and protect others from the development of these disorders.

Kevin J. Black, MD
4525 Scott Ave., Room 2205
Phone: 314-362-5041
Email (kevin@wustl.edu)
Students will participate in ongoing studies of brain imaging, movement disorders or neuropsychiatric illnesses. Degree of participation will relate to the student's available research time, skills and interest. Visit our webpage (http://www.nlm.wustl.edu/labs/kevin) for examples of past research.

Ginger E. Nicol, MD
Taylor Avenue Building, Suite 121
Phone: 314-362-5154
Clinical research concerning metabolism and the regulation of weight and body composition in persons with mental illness, particularly during exposure to psychotropic medications. Additional projects include 1) participation in the interpretation of results from clinical trials testing the effectiveness of behavioral weight loss in mentally ill individuals; 2) participation in clinical studies testing the effectiveness of psychotropic medications in mentally ill youth and adults; 3) use of administrative data to characterize and examine provider behaviors, including prescribing practices and adherence to standard of care monitoring practices in mentally ill youth and adults; 4) participation in the development and use of mobile health interventions to collect data and to promote health behavior change in mentally ill individuals; and 5) participation in the development, implementation and effectiveness testing of patient safety and quality improvement (PSQI) interventions in mentally ill obese patients in Washington University outpatient psychiatry clinic settings. This elective offers the student a broad exposure to clinical research protocols, including protocols in adults and children. Students will have an opportunity to focus on a particular project of interest.

Rumi Kato Price, PhD, MPE
Central Institute for the Deaf (CID) Building
4560 Clayton Rd.
Phone: 314-286-2283
Medical and graduate students, postdoctoral and clinical fellows will work closely with Dr. Price and her collaborators on ongoing research projects in substance abuse, psychiatric epidemiology, and prevention in the community research context. The current projects include: implementation of a sensor-and smartphone-based technology to monitor and manage post-traumatic stress disorder (PTSD) and anxiety disorder symptoms; and epidemiology and clinical studies of human trafficking in the St. Louis region. We work closely with the Institute for Public Health and collaborate with multidisciplinary researchers as well as community leaders.

**Psychiatric and Behavioral Health Sciences Concentration**

Rumi Kato Price, PhD, MPE (concentration program director); Arpana Agrawal, PhD; Kathleen B. Bucholz, PhD, MPE; Li-Shiun Chen, MD; Anne Glowinski, MD, MPE; Rick Gruca, PhD, MPE
Taylor Avenue Building (TAB)
660 S. Taylor Ave.
Phone: 314-286-2283
Courses are held at the Institute for Public Health TAB building. The Psychiatric and Behavioral Sciences Concentration is an integral component of the Master of Population Health Sciences (MPHS). It is accredited in WUSM and taught by psychiatry faculty members. The Concentration provides clinician-researchers, postdoctoral fellows, and advanced medical and other graduate students with strong conceptual and methodological skills required for the design, advanced analysis and interpretation of epidemiological and treatment-effectiveness studies. With an emphasis on a clinical approach to psychiatric and addiction health research, didactic training focuses on in-depth understanding of disease phenotypes, pathobiology and developmental trajectories; understanding the underlying biological and environmental factors and their interactions; understanding the role of psychiatric epidemiology in disease prevention and intervention; and evaluating psychiatric clinical treatment and management programs of psychopathology. A fellow/student has an option of applying for an MPHS degree program or taking appropriate courses as part of their training or academic program.

Current available courses include:

1. M19 PHS 561 Epidemiology of Psychiatric Disorders across the Lifespan (Course director: A. Glowinski, MD; 3 credits): This course takes an integrated developmental approach to the epidemiology, etiology and evolving nosology of psychiatric disorders.
2. M19 PHS 562 Addictions and Addictive Behaviors (Course director: R. Gruca, PhD; 3 credits): This course provides an overview of the principles of substance-related addictions and the processes and mechanisms that underlie addiction.
3. M19 PHS 565 Global Burden of Diseases: Methods and Applications (/S55 MPH) (Course director: R.K. Price, PhD; 3 credits): This course provides an overview of the current methods for studying the global burden of medical and psychiatric diseases from a multidisciplinary perspective.
Faculty

Department Chair

Charles F. Zorumski, MD

Visit our website for more information about our faculty (http://www.psychiatry.wustl.edu/Faculty) and their appointments.

A

Arpana Agrawal, PHD
Professor of Psychiatry (primary appointment)
PHD Virginia Comm University 2004

Aqeeb Ahmad
Instructor in Clinical Psychiatry (primary appointment)

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Instructor in Clinical Psychiatry (primary appointment)
MD Washington Univ in St. Louis 1978

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PHD Brigham Young University 1986
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BS Brigham Young University 1982
MD Saint Louis University 1989

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BS Union College New York 2008
MBA Union College New York 2009
MD Albany Medical College 2012

B

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Professor of Neuroscience
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BA University of Navarra 2000
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H

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Professor of Neurology
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PHS University of Iowa 1986
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Professor of Medicine
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Vice Chairman for Clinical Affairs, Department of Psychiatry
PHD Saint Louis University 1978
MDI Concordia University 1972
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Patrick Joseph Lustman, MSW, PHD  
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MS University of Canterbury 1989  
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PHD University of Pittsburgh 1992  
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Virgil Lee Malmberg, MD, MS  
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MS University of Illinois 1970

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MA University of MO St Louis 2007  
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MD Semmelweis University of Med 1998

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Associate Professor of Psychiatry (primary appointment)  
PHD Washington Univ in St. Louis 2005  
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Professor of Neuroscience  
BA Earlham College 1988  
PHD Washington Univ in St. Louis 1995

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MD Saint Louis University 1960  
BA Washington Univ in St. Louis 1956

James R Mikołajczak, MD  
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PHD University of Iowa 1991
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BS Oregon St University 1981

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MD Washington Univ in St. Louis 1996

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BA Vassar College 1967
MD Northwestern University Med 1973

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MA Washington Univ in St. Louis 1982

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BS Mass Inst of Technology (MIT) 2006
MD Tufts University 2010

Rashmi R Nakra, UNKNOWN
Associate Professor of Clinical Psychiatry (primary appointment)
UNKNOWN Lady Hardings 1970

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BA Johns Hopkins University 1982
MD University of Illinois 1986

Ginger E. Nicol, MD
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BA University of Iowa 1998
MD University of Iowa 2002

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Associate Professor of Neurobiology in Psychiatry (primary appointment)
Associate Professor of Neuroscience
MS Bucknell University 1975
BA Elizabethtown College 1969
PHD Rutgers University 1981

Kevin K. Noguchi, MA, PHD
Assistant Professor of Psychiatry (primary appointment)
MA University of CA Los Angeles 1998
PHD University of CA Los Angeles 2003
BS University of CA Santa Barbara 1996

Thomas John Nowotny, MD
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BS Washington Univ in St. Louis 1980
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Brendan Joseph O'Connor, MD
Assistant Professor of Psychiatry (primary appointment)
BS Creighton University 2006
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Kalu Onuma
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BS1 University of Oklahoma 2003
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BA University of Oklahoma 2003

Vasileios Panagopoulos
Instructor in Clinical Psychiatry (primary appointment)

Pablo Pastor, PHD, MD
Visiting Instructor in Psychiatry (primary appointment)
PHD University of Barcelona 1992
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Steven Marc Paul, MS, MD
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Professor of Neurology
BS Tulane University 1972
MS Tulane University 1975
MD Tulane University 1975

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MS Finch Univ of Health Sciences 1997
BA Washington Univ in St. Louis 1991
PHD Finch Univ of Health Sciences 2001

Stephen E Peterson
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Elizabeth F Pribor, MD
Associate Professor of Clinical Psychiatry (primary appointment)
MD Saint Louis University 1985
BA Emory University 1981

Rumi Kato Price, MA, PHD, MPE
Professor of Psychiatry (primary appointment)
MA University of California 1982
BA Ochanomizu Univ 1976
PHD University of California 1988
MPE Washington Univ in St. Louis 1990

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Associate Professor of Psychiatry (Child Psychiatry) (primary appointment)
Associate Professor of Psychological & Brain Sciences (Courtesy)
Associate Professor of Radiology
BA Princeton University 1990
MD Washington Univ in St. Louis 2000
PHD Washington Univ in St. Louis 2000

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Tahir Rahman, MD
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MD University of Kansas Medical 1995

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PHD Southern Illinois U Carbondale 2012
BS University of Evansville 2008
MA Southern Illinois U Carbondale 2010

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BA University of Colorado Boulder 1962
MD University of Colorado Boulder 1968

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MD University of South Dakota 2001

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(primary appointment)
BS Osmania Medical College 1953
MD School Not Listed 1959

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BS University of CA Davis 1994
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MA University of Illinois 1981

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BA Millikin University 1960
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Syed T Rizvi
Assistant Professor of Clinical Psychiatry (Child Psychiatry)
(primary appointment)

John Deno Rogakos, MD
Instructor in Clinical Psychiatry (Child Psychiatry) (primary appointment)
MD Washington Univ in St. Louis 1995
BS University of Dayton 1990

Cynthia E Rogers, MD
Assistant Professor of Psychiatry (primary appointment)
BA Harvard University 1998
MD Washington Univ in St. Louis 2005

Eugene Harold Rubin, PHD, MD
Professor of Psychiatry (primary appointment)
Professor of Psychological & Brain Sciences (courtesy)
Vice Chairman for Education, Department of Psychiatry
PHD Washington Univ in St. Louis 1977
MD Washington Univ in St. Louis 1978
BA University of Rochester 1971

John Conrad Rudersdorf
Instructor in Clinical Psychiatry (Child) (primary appointment)

James Rutherford, MD
Assistant Professor Emeritus of Clinical Psychiatry (primary appointment)
MD University of Iowa 1980
BA Drake University 1975

Jo-Ellyn M Ryall, MD
Associate Professor of Clinical Psychiatry (primary appointment)
BA Rutgers University 1971
MD Washington Univ in St. Louis 1975

Frank Scott Saccone, PHD
Associate Professor of Psychiatry (primary appointment)
BA Rensselaer Polytechnic Instit 1990
PHD Brown University 1995

Berette A Salazar, MD
Assistant Professor of Clinical Psychiatry (primary appointment)
Carolyn E. Sartor, MS, PHD
Adjunct Assistant Professor of Psychiatry (primary appointment)
BS Oberlin College 1994
MS Catholic University America 1999
PHD Palo Alto College 2005

Norman Sartorius
Adjunct Professor of Psychiatry (primary appointment)

Jeffrey Frank Scherrer, PHD
Adjunct Associate Professor of Psychiatry (primary appointment)
PHD Saint Louis University 2004

Jeffrey I Schulman, MD, MBA
Instructor in Clinical Psychiatry (Child Psychiatry) (primary appointment)
BA Yale University 1970
MD University of Kentucky 1974
MBA Washington Univ in St. Louis 1988

Adelita Segovia Langley
Associate Professor of Clinical Psychiatry (Child Psychiatry) (primary appointment)

Bryan Norbert Sewing, DOST
Instructor in Psychiatry (primary appointment)
DOST Kirksville College of Osteopat 1998
BS Texas Christian University 1991

Paul W Sheffner, MD
Assistant Professor of Clinical Psychiatry (primary appointment)
MD Washington Univ in St. Louis 1974

Barbara Sue Silverstein, PHD, MSW
Assistant Professor of Clinical Psychiatry (Child Psychiatry) (primary appointment)
PHD Saint Louis University 1992
BS University of Missouri 1978
MSW Washington Univ in St. Louis 1981

Nathan M Simon, MD, MS
Professor Emeritus of Clinical Psychiatry (primary appointment)
MD Washington Univ in St. Louis 1955
BS Yale University 1949
MS Yale University 1950

Reed Earl Simpson, MD
Assistant Professor of Clinical Psychiatry (primary appointment)
BA Wabash College 1972
MD Washington Univ in St. Louis 1976

Judith Ann Skala, PHD, RN, RN, MA
Assistant Professor of Psychiatry (primary appointment)
PHD Washington Univ in St. Louis 2001
RN 1981
BS Washington Univ in St. Louis 1989
RN St Louis Community College 1981

MA Washington Univ in St. Louis 1992

Stacey L Smith, MD
Assistant Professor of Clinical Psychiatry (primary appointment)
BA Northwestern University 1986
MD Northwestern University 1991

Timothy Eric Spiegel, MD
Assistant Professor of Psychiatry (Child Psychiatry) (primary appointment)
BS Saint Louis University 2006
MD University of Utah 2011

Wayne A Stillings, MD
Assistant Professor of Clinical Psychiatry (primary appointment)
BA Oberlin College 1971
MD Washington Univ in St. Louis 1975

Catherine Striley
Adjunct Assistant Professor of Psychiatry (primary appointment)

Jagdish C Suri, MD, UNKNOWN
Assistant Professor of Clinical Psychiatry (Child Psychiatry) (primary appointment)
BS School Not Listed 1954
MD School Not Listed 1964
UNKNOWN School Not Listed 1959

Vinod Suri, UNKNOWN
Instructor in Clinical Psychiatry (Child Psychiatry) (Full-Time at Hawthorn Children’s Psychiatric Hospital) (primary appointment)
UNKNOWN Punjab University 1962

Dragan M Svrakic, MD, PHD
Professor of Psychiatry (primary appointment)
MD University of Belgrade 1978
PHD University of Belgrade 1989

Chad M Sylvester, MD, PHD
Assistant Professor of Psychiatry (Child Psychiatry) (primary appointment)
BS University of Notre Dame 2001
MD Washington Univ in St. Louis 2009
PHD Washington Univ in St. Louis 2009

Mini Tandon, DOST
Assistant Professor of Psychiatry (Child Psychiatry) (primary appointment)
BS Truman State University 1997
DOST Kansas Cty Univ Med/Bioscience 2002

Alexandre Todorov, PHD, M ED
Professor of Psychiatry (primary appointment)
BS Vanderbilt University 1985
PHD Louisiana St University 1992
M ED Vanderbilt University 1988

Ludwig Trillo Alvarez, MD
Instructor in Psychiatry (primary appointment)
### Courses


#### M85 Psych 676A Diseases of the Nervous System: Psychiatry

This course will emphasize the diagnosis of major psychiatric illnesses in adults and children. Psychiatric diseases will be described in terms of epidemiology, clinical presentations, natural history, genetics, differential diagnosis and clinical management. Biological and psychological influences on these diseases will be presented. Interviewing techniques and performance of the mental status exam will be demonstrated by patient interviews.

Credit 44 units.
M85 Psych 770 Psychiatry Clerkship
Students spend four weeks on the inpatient psychiatry service of Barnes-Jewish Hospital at either the main campus unit or at the St. Louis Psychiatric Stabilization Center (PSC). Students evaluate and treat patients under the supervision of house staff and an attending physician, attend teaching conferences including small group sessions with WUSM clinical faculty and upper-level psychiatry residents. Exposure to ambulatory treatment settings is also designed into each student’s educational experience. Students are responsible for completing learning exercises and other assignments. Credit 154 units.

M85 Psych 771 Ambulatory Clerkship: Psychiatry for Generalists
Up to two students may elect to pursue their ambulatory medicine selective through the psychiatry department. Students participate in clinical duties depending on assigned locations, which can include the BJH adult psychiatry clinic, a community mental health center, the Washington University child and adolescent psychiatry clinic, and both the adult and child psychiatry consultation services. Students will also submit a written review of a relevant clinical topic of their choice. There are no call obligations at any clinical site. Credit 154 units.

M85 Psych 805 Psychiatry Consult Service
Students spend four weeks on the psychiatry consult service at Barnes-Jewish Hospital. Under the supervision of house staff and attending physicians, students participate in the evaluation and collaborative management of inpatients on medical and surgical units for a broad range of psychiatric and behavioral concerns. They learn about the intersection between psychiatry and other medical specialties and important skills for collaborative patient care. Students attend departmental conferences and other educational sessions, and they also prepare and present a clinical topical review of their choice.

M85 Psych 810 Outpatient Community Psychiatry
This elective will provide the student with a significant outpatient experience in Psychiatry. Students will be paired with a Resident physician and have exposure to two adult clinics and one child clinic over the course of the rotation. Students will observe and assist in the diagnosis and treatment of patients in the clinic setting. Students will also attend scheduled lectures and conferences over the course of the rotation relevant to outpatient Psychiatry. During the elective, the student will learn about the outpatient presentations of psychiatric disorders, a variety of treatment techniques (psychotherapy and psychopharmacology), and general principles of outpatient clinical management.

M85 Psych 836 Clinical Psychiatry - Inpatient Psychiatric Service
This is a senior rotation that provides the students with an opportunity to expand their knowledge of inpatient clinical psychiatry by functioning as interns. Students attend all staffing and teaching conferences given to first-year psychiatry residents, take patients in rotation, and share night call with first-year residents approximately every fifth night. Immediate supervision is provided by the inpatient attending, and additional supervision can be arranged as desired. Teaching emphasis is directed toward psychiatric diagnosis, appropriate use of psychopharmacologic agents, psychotherapeutic intervention, use of community resources and pursuit of the psychiatric scientific literature. The student will write a self-selected clinical topic relevant to treatment and management of psychiatric inpatients.

M85 Psych 840 Child Psychiatry
This elective in child psychiatry utilizes the Child Psychiatry Outpatient Clinic and the consult-liaison service at St. Louis Children's Hospital. It provides experience in age-appropriate diagnostic and treatment methods in children and adolescents. A paper on a topic of the student's choosing is required.

M85 Psych 844 Forensic Psychiatry
The medical student will be actively involved in many aspects of forensic psychiatry including civil litigation, workman's compensation, malpractice, civil commitment, and guardianship. There may be opportunities to be involved in criminal forensic issues. The student will work with several instructors within the Department of Psychiatry but will primarily meet with the Course Director a minimum of two hours per week. They will also work with The BJH Manager of Case Management and The City of St Louis Probate Court. The student will also be assigned readings of landmark cases, textbooks, psychiatric expert opinions, legal filing with the probate court and attend civil hearings. The student will learn relevant criminal statutes regarding competency and civil commitment, causation in civil litigation, the concept of medical malpractice and risk assessment of violence and suicide. There may be the opportunity to witness sexually violent predator evaluations and/or treatment. The student will be required to research and write an opinion on a specific approved topic in forensic psychiatry. The objectives will be measured by attendance and by formal evaluation of the student's participation and knowledge during the supervision discussion. It will also be determined by the originality, thoroughness, and quality of the research paper.

M85 Psych 855 Introduction to Eating Disorders
Students will learn the basics of assessment, participate in groups that focus on family education, gain experience in interdisciplinary psychiatric team work, attend case discussions with psychiatrists, and participate in treatment planning. Students will be able to describe core symptoms, recommend treatment options, and discuss the medical, nutritional, and psychiatric components of treatment.

M85 Psych 880 Schizophrenia Precursors & Prodomal States
This is an opportunity for trainees to gain experience in the evaluation of children and adolescents who may be at high risk for schizophrenia. The rotation would center around the "First Contact Assessment Service," which evaluates patients who show characteristics suggestive of prodromal schizophrenia (such as new-onset attenuated psychotic symptoms along with recent deterioration in functioning) and/or early life characteristics that may indicate risk for developing schizophrenia later in life (for example, nonspecific social/emotional/behavioral symptoms in a child/adolescent with a strong family history of schizophrenia). Since the full symptoms of schizophrenia are often preceded by a wide range of childhood behavioral and developmental abnormalities, this rotation would also help trainees integrate information regarding the continuity between childhood development and adult psychopathology. Trainee would observe all aspects of First Contact evaluations (including semi-structured diagnostic interviews and examination of subtle neurological signs), participate in case discussions, and observe follow-up...
consultations involving patients with psychotic and/or complex neurodevelopmental disorders. Trainee would also be required to write a literature review on a topic relevant to the rotation.

**M85 Psych 889 Interventional Psychiatry**
Interventional Psychiatry involves the application of ECT (Electroconvulsive Therapy), rTMS (Repetitive Transcranial Magnetic Stimulation) and VNS (Vagus Nerve Stimulation) in the treatment of medication-resistant psychiatric illness. The student will participate in the evaluations of patients referred to the Treatment Resistant Depression Clinic supervised by Dr. Charles Conway. The student will be involved in the neuropsychiatric assessment of patients referred for ECT. In addition, the student will receive training in the application of ECT and in the clinical management of patients receiving inpatient and outpatient ECT. As cases become available, the student will be involved in rTMS and VNS evaluations and treatment. The student will be encouraged to review appropriate literature and make clinically relevant case-oriented presentations. The student will be expected to write a review of a self-selected clinic topic relevant to interventional psychiatry. As advances in the field occur, the rotation may also involve exposure to individuals receiving other modalities of intervention, including deep brain stimulation (DBS) and magnetic seizure therapy (MST).

**M85 Psych 900 Research Elective-Psychiatry**
Research opportunities may be available. If interested, please contact the Department of Psychiatry.