PYC - PSYCHIATRY

PYC 6050 Biology of the Eye Cr. 3
Introduction to biology of eye structure/function, and to causes and clinical treatments of eye-related disorders and diseases. Offered Yearly.
Equivalent: ANA 6050, BIO 6055

PYC 7010 Neurobiology I Cr. 3
First part of a two-semester in-depth study of nerve cells, their organization into functional circuits and their mediation of normal and aberrant behaviors. Offered Fall.

PYC 7140 Fundamentals of Neuroimaging Cr. 3
Overview of methods: PET, EEG/ERP/TMS, fundamentals of MR, structural MRI, functional MR, MR spectroscopy and DTI. Review of the application of these methods in studying disorders of the nervous system. Offered Winter.

PYC 7150 Fundamentals of Neuropsychiatric Disorders Cr. 3
Overview of pathophysiology, clinical manifestations, and treatment of major neuropsychiatric disorders. Offered Fall.

PYC 7320 MR Imaging of Neurovascular Disease Cr. 3
Recent advances in MRI technology applied to human brain vascular diseases. Methods include: 3D anatomical imaging, diffusion tensor imaging, functional brain imaging, perfusion hanging, and susceptibility weighted imaging. Offered Biannually (Fall).
Equivalent: BME 7720

PYC 7500 Advanced Topics in Neuroscience Cr. 1-6
Topics offered each semester in one-credit modules, relevant to ongoing research in the degree program. Offered Every Term.
Repeatable for 9 Credits

PYC 7515 Advanced Topics: Imaging, Neurodevelopment and Psychiatric Disorders Cr. 3
Advanced introduction to imaging neurodevelopment based on anatomical, biochemical and functional studies; focus on abnormal development of psychiatric disorders. Offered Biannually (Winter).

PYC 7890 Research Seminar Cr. 1
Presentations by clinical and basic research staff and by the program’s graduate students. Offered Every Term.
Repeatable for 8 Credits

PYC 7950 Psychology/Psychiatry Internship Cr. 3
Development of psychotherapy and psychological assessment skills, based on psychological theory and research. Training program is customized for each pre-doctoral intern, based on training needs and career objectives. Offered Every Term.

PYC 7990 Directed Study Cr. 1-6
Independent study under the guidance of an advisor, including complete review of a problem area immediately relevant to basic or clinical neuroscience. Offered Every Term.
Repeatable for 10 Credits

PYC 7996 Research Problems Cr. 3
Directed laboratory rotation for graduate students in the translational neuroscience program. Offered Every Term.
Repeatable for 9 Credits

PYC 7998 Clinical Neuroscience Rotation Cr. 3,6
Neuroscience trainees become familiar with clinical issues in their chosen area of study; transfer of basic science knowledge to clinical application. Offered Every Term.
Prerequisites: PYC 7150 with a minimum grade of C
Repeatable for 6 Credits

PYC 8999 Master’s Thesis Research and Direction Cr. 1-8
Preparation in writing of a scholarly proposal and thesis. Offered Every Term.
Repeatable for 8 Credits

PYC 9990 Pre-Doctoral Candidacy Research Cr. 1-8
Research in preparation for doctoral dissertation. Offered Every Term.
Repeatable for 12 Credits

PYC 9991 Doctoral Candidate Status I: Dissertation Research and Direction Cr. 7.5
Offered Every Term.

PYC 9992 Doctoral Candidate Status II: Dissertation Research and Direction Cr. 7.5
Offered Every Term.
Prerequisite: PYC 9991, with a minimum grade of S

PYC 9993 Doctoral Candidate Status III: Dissertation Research and Direction Cr. 7.5
Offered Every Term.
Prerequisite: PYC 9992, with a minimum grade of S

PYC 9994 Doctoral Candidate Status IV: Dissertation Research and Direction Cr. 7.5
Offered Every Term.
Prerequisite: PYC 9993, with a minimum grade of S

PYC 9995 Candidate Maintenance Status: Doctoral Dissertation Research and Direction Cr. 0
Offered Every Term.
Repeatable for 0 Credits