

# PYC - PSYCHIATRY

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## **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.

**Restriction(s):** Enrollment is limited to Undergraduate level students.

**Course Material Fees:** \$25

**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.

**Restriction(s):** Enrollment is limited to Graduate level students.

## **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.

**Restriction(s):** Enrollment is limited to Graduate level students.

## **PYC 7150 Fundamentals of Neuropsychiatric Disorders Cr. 3**

Overview of pathophysiology, clinical manifestations, and treatment of major neuropsychiatric disorders. Offered Fall.

**Restriction(s):** Enrollment is limited to Graduate level students; enrollment limited to students in the School of Medicine.

## **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).

**Restriction(s):** Enrollment is limited to Graduate level students.

**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.

**Restriction(s):** Enrollment is limited to Graduate level students.

**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).

**Restriction(s):** Enrollment is limited to Graduate level students; enrollment limited to students in a Doctor of Philosophy degree.

## **PYC 7890 Research Seminar Cr. 1**

Presentations by clinical and basic research staff and by the program's graduate students. Offered Every Term.

**Restriction(s):** Enrollment is limited to Graduate level students.

**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.

**Restriction(s):** Enrollment is limited to Graduate level students.

## **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.

**Restriction(s):** Enrollment is limited to Graduate level students.

**Repeatable for 10 Credits**

## **PYC 7996 Research Problems Cr. 3**

Directed laboratory rotation for graduate students in the translational neuroscience program. Offered Every Term.

**Restriction(s):** Enrollment is limited to Graduate level students.

**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])

**Restriction(s):** Enrollment is limited to Graduate level students.

**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.

**Restriction(s):** Enrollment limited to students with a class of Candidate Masters; enrollment is limited to Graduate level students.

**Repeatable for 8 Credits**

## **PYC 9990 Pre-Doctoral Candidacy Research Cr. 1-8**

Research in preparation for doctoral dissertation. Offered Every Term.

**Restriction(s):** Enrollment is limited to Graduate level students.

**Repeatable for 12 Credits**

## **PYC 9991 Doctoral Candidate Status I: Dissertation Research and Direction Cr. 7.5**

Offered Every Term.

**Restriction(s):** Enrollment is limited to Graduate level students.

## **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

**Restriction(s):** Enrollment is limited to Graduate level students.

## **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

**Restriction(s):** Enrollment is limited to Graduate level students.

## **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

**Restriction(s):** Enrollment is limited to Graduate level students.

## **PYC 9995 Candidate Maintenance Status: Doctoral Dissertation Research and Direction Cr. 0**

Offered Every Term.

**Restriction(s):** Enrollment is limited to Graduate level students.

**Course Material Fees:** \$348.67

**Repeatable for 0 Credits**