

REQUIREMENTS FOR INTERDISCIPLINARY CERTIFICATE

I. Course Requirements:

1. Students must participate in the weekly journal club and colloquia series at the Institute for Behavior Genetics. Each student must present at journal club at least three times during the course of their training but yearly presentations are encouraged. Two presentations should be made on relevant papers and the third presentation should be focused on the student's own research.
2. Genetics (e.g., UCB: EBIO 2070 or MCDB 2150, 3 credits or UCD: GENETICS 3831, 3 credits). A student may elect to fulfill this requirement via a written proficiency examination in general genetics.
3. Behavioral Genetics: This course is a 4-credit course, 2 credits that are taught through IPHY (IPHY 5102) and 2 credits taught through PSYC (PSCY 5102).
4. Statistics (e.g., UCB: Psychology 5751, 4 credits, or 5541, 4 credits). This must be a graduate-level course in statistics (of at least one semester), approved by the student's advisory committee.
5. Scientific ethics (e.g. Psychology 5112, 3 credits; Pharmacology 7605)

Students also must complete two courses from the following:

1. Quantitative Genetics (UCB: Psychology 5122, 3 credits).
2. Molecular Genetics and Behavior (e.g., UCB: Psychology 5232, 3 credits; UCB: MCDB 5232, 3 credits, IPHY 5232, 3 credits).
3. Biometrical Methods in Behavioral Genetics (e.g. UCB: Psychology 5242, 3 credits).
4. Bioinformatics and Genomics (e.g., Integrative Physiology 6010, 3 credits.
5. Quantitative Trait Loci Analysis (e.g., Psychology 5112, 3 credits)

Students must complete one course from the following:

1. Concepts in Behavioral Genetics (e.g., UCB: Psychology 5112, 3 credits).

In some cases, this course may be cross-listed with an affiliated department. Examples of concept courses include Genetics of Psychopathology, Evolutionary Psychology, or other current topics.

2. Molecular Genetics of Addiction (e.g., Integrative Physiology 6010, 3 credits).
3. Seminar in Behavioral Genetics (e.g., UCB: Psychology 7102, 2 credits).

Examples of seminar courses include: Mouse Models for Behavior Genetics, Genetics of Personality, Genetics and Substance Abuse, and Developmental Psychopathology.

Typical first year of coursework:

Fall semester: Genetics (if needed), Statistics, other elective

Spring semester: Intro to Behavior Genetics, other elective

NOTE: As some courses can only be taught every other year, it is each student's responsibility to take relevant courses when offered. Some equivalent courses may be offered at the Health Sciences Center or other venues. Course substitutions may be requested -- see Petitions below.

II. Teaching requirements

Each of the students in the IBG Training Program must TA for one semester in a course judged by their advisory committee to be relevant to their professional specialty. (As part of their general responsibilities for the development of the student, advisory committees may sometimes require additional teaching.)

III. General Requirements

IBG students are required to conduct their doctoral dissertation research on topics of direct relevance to animal or human behavioral genetics, under the supervision of an IBG faculty member. A training file for each student is maintained in the IBG office for tracking progress toward completion of program requirements. Each student is to assist in updating this file at least once per year.

For the Ph.D. requirements, students must fulfill the specific departmental and Graduate School requirements in addition to those listed here. It is the responsibility of each student, in consultation with his/her advisory committee and departmental advisor to be informed about the degree requirements.

IV. Annual Meetings

Annual Meetings: Each student in the training program is expected to meet at least annually by an advisory committee. The date and attendees of these annual meetings are to be recorded in the student's training file.

Comprehensive Exam, Thesis Proposals, and Thesis Defense meetings are to be held in accordance with specific departmental guidelines, in consultation with the advisory committee and departmental advisor.

V. Petitions

Deviations from these requirements may be requested by petition to the student's advisory committee. Specific requests for course substitution, resolution of an ambiguity, etc., should be made by written petition. A petition may be approved by a majority vote of both the advisory committee and the IBG Training Committee. Disapproval of a petition may be changed to approval by a majority vote of the IBG faculty.