

NEUROSCIENCE

Mailing Address: James R. Unnerstall, PhD
Director of Graduate Studies
Graduate Program in Neuroscience
Department of Anatomy and Cell
Biology (MC 512)
808 South Wood Street
Chicago, IL 60612-7308

Campus Location: 304 CSN

Program Codes: 20FS0323MS (MS);
20FS0323PHD (PhD)

Telephone: (312) 996-7370

E-mail: jru@uic.edu

Web Site: <http://www.uic.edu/depts/neurosci/>

Program Coordinators: Mark M. Rasenick, Simon T.
Alford, and Keith Thulborn

Director of Graduate Studies: James R. Unnerstall
The Program in Neuroscience offers work leading to a Doctor of Philosophy degree in Neuroscience and a Master of Science degree in Neuroscience for physician residents in Psychiatry^a. As a multidisciplinary program, students have numerous research opportunities in several departments across the campus. Fields of study cluster around three areas of concentration: neural signal transduction and molecular biology; systems and integrative neuroscience; human/therapeutic neuroscience, cognition, and neural imaging.

ADMISSION REQUIREMENTS

Applicants are considered on an individual basis. Transcripts of all undergraduate and any graduate work must be submitted. In addition to the Graduate College minimum requirements, applicants must meet the following program requirements for Doctor of Philosophy and Master of Science:

Master of Science

Degree Requirements Doctor of Medicine (MD) degree from a nationally accredited program.

Grade Point Average Successful completion of a Doctor of Medicine program from a nationally accredited program and admission to the Psychiatry Residency Program.

Tests Required Successful completion of USMLE Steps 1 and 2.

Minimum TOEFL Score (if applicable) 620 (paper-based); 260 (computer-based); 80, with sub-scores of Reading 19, Listening 17, Speaking 20, and Writing 21 (new Internet-based TOEFL).

Letters of Recommendation Three required, preferably from instructors and advisers who are familiar with the applicant's recent work.

Personal Statement A one to three page statement of the applicant's professional goals, including the justification for pursuing a career in neurosciences, is required.

Deadlines Completed applications must be received by February 15.

^a *The Master of Science in Neuroscience is for those currently holding an MD degree and completing a Psychiatry residency program at UIC. These master's candidates will be supported from an NIMH Training Grant that is already in place at UIC that represents a specific initiative by the NIH to support the training of physician/scientists. No other candidates for the Master of Science degree will be considered. Students with terminal master's degrees do not command any additional advantage in competing for academic positions; entry-level research assistant positions usually require no more than a Bachelor of Science degree. More appropriate master's degree programs for students who wish to advance in industry or education are available in the departments of Biological Sciences or Psychology.*

Doctor of Philosophy

Baccalaureate Field No restrictions. Prior academic work in the following disciplines is strongly recommended:

Biology (8 hours)—introductory biology plus lab

Chemistry (16 hours)—general chemistry and organic chemistry plus labs **or**
Biochemistry (3–4 hours)

Physics (6 hours)—introductory physics

Grade Point Average A minimum average of 3.00/4.00 for the final 60 semester hours (90 quarter hours) of undergraduate study.

Tests Required GRE General.

Minimum TOEFL Score (if applicable) 620 (paper-based); 260 (computer-based); 80, with sub-scores of Reading 19, Listening 17, Speaking 20, and Writing 21 (new Internet-based TOEFL).

Letters of Recommendation Three required, preferably from instructors and advisers who are familiar with the applicant's recent work

Personal Statement A one to three page statement of the applicant's professional goals, including the justification for pursuing a career in neurosciences, is required.

Deadlines Completed applications must be received by February 15.

Nondegree Applicants Rarely accepted. Nondegree applicants must submit all credentials and meet the same admission requirements as degree applicants. The department only accepts nondegree applicants who have exceptional credentials and who desire to take a few specific courses for professional purposes. Nondegree students may not take practicum or individual study courses. Nondegree students will not be admitted to the degree program at a later time.



DEGREE REQUIREMENTS

In addition to the Graduate College minimum requirements, students must meet the following program requirements:

Master of Science

Three areas of concentration are available for study. These concentrations are:

1. Neural Signal Transduction and Molecular Biology
2. Systems and Integrative Neuroscience
3. Human/Therapeutic Neuroscience and Methods of Neural Imaging

Minimum Semester Hours Required 32 beyond the baccalaureate.

Course Work All students must take or show proficiency in GCLS 503, ANAT/NEUS 403, NEUS 501 and NEUS 502, and NEUS 511. Students will be required to take two modules per semester of GCLS 504 in their first year of study. Remaining courses will be chosen depending upon the concentration selected by the student. Registration and attendance for NEUS 595—Journal Club is required each semester.

Comprehensive Examination None.

Thesis, Project, or Course-Work-Only Options A master's thesis is required.

Other Requirements Each student must present at least one seminar prior to graduation.

Doctor of Philosophy

Three areas of concentration are available for study. These concentrations are:

1. Neural Signal Transduction and Molecular Biology
2. Systems and Integrative Neuroscience
3. Human/Therapeutic Neuroscience and Methods of Neural Imaging

Minimum Semester Hours Required Students must complete 96 hours of credit within 9 years from the baccalaureate. For those students entering the program with a valid Master of Science degree from an accredited institution, up to 32 hours of credit may be transferred if considered equivalent to core courses within the program.

Course Work All students must take or show proficiency in GCLS 503, ANAT/NEUS 403, NEUS 501 and NEUS 502, and NEUS 511. Students will be required to take two modules per semester of GCLS 504 and GCLS 505 in their second year of study. A minimum of two research rotations (NEUS 506) is required during the first year. Of the 96 total credit hours, 32 will be from formal course work. Remaining courses will be selected depending upon the concentration chosen by the student. The remaining credit hours will be filled by research credit. Registration and attendance for Journal Club (NEUS 595) is required each semester.

Examinations A preliminary examination, both written and oral, is required.

Dissertation Required.

Other Requirements Each student must present at least one midthesis seminar prior to graduation. A final public seminar and oral defense of the dissertation are required.

Interdepartmental Concentration in Neuroscience

The Graduate Program in Neuroscience offers work leading to the graduate Interdepartmental Concentration in Neuroscience. Students in the following graduate programs may be eligible to complete the Interdepartmental Concentration in Neuroscience:

<i>Graduate Program</i>	<i>Level</i>
Anatomy and Cell Biology	PhD
Biochemistry and Molecular Genetics	PhD
Bioengineering	PhD
Biological Sciences	PhD
Biopharmaceutical Science	PhD
Chemistry	PhD
Nursing Science	PhD
Pharmacology	PhD
Philosophy	PhD
Physiology and Biophysics	PhD
Psychology	PhD

Concentration Requirements

Students pursuing a concentration in Neuroscience must take NEUS 501 and 502 and at least 12 additional hours of neuroscience courses at the 400- or 500-level **or** BIOS/PHIL/PSYC 484 and 485 and at least 10 additional hours of neuroscience courses at the 400- or 500-level. Neuroscience electives will be assessed and approved by the Graduate Studies Committee of the Graduate Program in Neuroscience. Research, departmental seminars (journal clubs), and independent study cannot be included in these 10–12 hours of course credit. Of these 10–12 hours, at least 50% must be outside the student's major department and must be divided among at least 2 other departments. Students must submit the topic of their doctoral dissertation and a list of the courses in neuroscience that they have successfully completed (a grade of B or better) to the Graduate Studies Committee of the Program in Neuroscience for approval no later than the time of the preliminary examination.



SURVEY RESEARCH METHODOLOGY

Mailing Address: Community Health Sciences
(MC 923)
School of Public Health, 645 SPHPI
1603 West Taylor Street
Chicago, IL 60612-4394
Attn: Fred Kviz

Campus Location: Survey Research Laboratory,
CUPPA Hall, 6th Floor

Telephone: (312) 996-4889, (312) 996-0471

Co-Directors: Allyson Holbrook, Fred Kviz

E-mail: allyson@uic.edu, fkviz@uic.edu

Web Site: <http://www.srl.uic.edu/gcsrcm.htm>

Interdepartmental Graduate Concentration in Survey Research Methodology

The Interdepartmental Graduate Concentration in Survey Research Methodology (GCSRM) is available at both the master's and doctoral levels, in conjunction with several participating units. The primary goal of the interdisciplinary graduate curriculum in survey research methodology is to provide graduate students with the opportunity for systematic, integrated study of issues relevant to the conduct of professional survey research. Graduate students electing the concentration receive the masters or PhD after having fulfilled the requirements of the Graduate College, their major academic units, and the Interdepartmental Graduate Concentration in Survey Research Methodology. Students in the following graduate programs may be eligible to participate in the Interdepartmental Graduate Concentration in Survey Research Methodology:

Graduate Program	Level
Political Science	MA, PhD
Public Health-Community Health Sciences	MS, PhD
Public Administration	MPA, PhD
Sociology	MA, PhD

Other academic units may have become participants since the publication of this catalog. Students in academic units not listed above should contact one of the GCSRM Co-Directors for current information.

Admissions Requirements

Applicants are considered on an individual basis. Applicants must be admitted or enrolled as regular graduate students in one of the participating academic units. Application forms can be obtained from the GCSRM Web site. Admission to the concentration must be made before the term in which the student will obtain the degree.

Degree Requirements

1. Fulfillment of all academic unit requirements.
2. Selection of an adviser from among the Survey Research Methodology Graduate Faculty. In the case of doctoral students who have opted to use the concentration as a minor, this adviser or some other member of the Survey Research Methodology Graduate Faculty must participate in evaluating the candidate's doctoral examination.
3. A minimum of 14 semester hours of course work, of which at least 7 must be from among the core courses in the concentration (CHSC 447, CHSC 577, BSTT 440, PA 588, PA 579, and STAT 431). If a student elects to complete both BSTT 440 and STAT 431, only one of those courses may be counted toward fulfilling the core course requirement.
4. The remaining hours must come from survey research methodology elective courses, independent study decided in consultation with the adviser, or alternative courses approved by the adviser and the director(s). Doctoral students may not apply dissertation supervision credits toward the survey research methodology electives.



