



**Spring 2011**

**Multidisciplinary Ph.D. Program  
in Nutritional Sciences**

**University of Kentucky**

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Graduate Studies**

This handbook is a guide for students of the Ph.D. program in Nutritional Sciences, their academic advisors and other faculty members. The handbook provides an overview of the requirements and processes, degree and curriculum requirements, references and links to forms that need to be completed, Graduate School resources and other valuable information. For additional information, please consult the Center's Website <http://www.mc.uky.edu/nutrisci>



### Welcome New Graduate Students

The Graduate Center for Nutritional Sciences hopes your graduate years will be enjoyable and rewarding. The challenges you will face will create a sound research foundation and help make your future years as a basic research scientist productive and successful. The information in this handbook is intended to serve as a guide for your matriculation through our graduate program. Students should familiarize themselves with the information provided herein, and with that described in the Graduate School Bulletin.

[www.research.uky.edu/gcns/bulletin/bullinfo.shtml](http://www.research.uky.edu/gcns/bulletin/bullinfo.shtml)

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### Nutritional Sciences Graduate Program

There are two ways to be admitted in the Nutritional Sciences Graduate Program:

#### 1. The Ph.D. Program for Students Admitted to IBS

##### Integrated Biomedical Sciences Program (First Year of Graduate School)

The IBS program is composed of first year biomedical graduate students in the College of Medicine, University of Kentucky. The seven participating departments and centers include Anatomy & Neurobiology; Microbiology, Immunology & Molecular Genetics; Molecular & Biomedical Pharmacology; Molecular & Cellular Biochemistry; Graduate Center for Nutritional Sciences; Graduate Center for Toxicology; and Physiology. The IBS Program consists of both coursework and laboratory rotations completed during the first year of graduate school. The 2010-2011 curriculums are described below. Detailed information about these courses can be obtained at [www.mc.uky.edu/ibs/overview/curriculum.asp](http://www.mc.uky.edu/ibs/overview/curriculum.asp)

##### FALL Semester

IBS 601	Biomolecules and Metabolism	(3 hours)
IBS 603	Cell Biology	(3 hours)
IBS 605	Experimental Genetics	(3 hours)
IBS 607	Seminar in Integrated Biomedical Sciences	(0 hours)
IBS 609	Research in Integrated Biomedical Sciences	(1 hour)

##### SPRING Semester

IBS 602	Biomolecules and Molecular Biology	(3 hours)
IBS 604	Cell Signaling	(3 hours)
IBS 606	Integrated Biomedical Sciences	(4 hours)
IBS 607	Seminar in Integrated Biomedical Sciences	(0 hours)
IBS 609	Research in Integrated Biomedical Sciences	(1 hour)

##### SUMMER Session

TOX 600	Ethics in Scientific Research	(1 hour)
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All IBS students take four laboratory rotations (two per semester) among any of the participating departments. The purpose of the rotations is for the student to both gain experience in a working



**CNU/NS 603****Integrated Nutritional Sciences III****2 credits**

Working knowledge of dietary requirements and guidelines, nutritional assessment, food safety issues and nutritional requirements through the lifecycle. This is a web-based course.

**NS 771****Graduate Seminar in Nutritional Sciences****1 credit\*\***

Seminars by students, postdoctoral fellows and faculty both internal and external to the University in areas of nutritional sciences

**NS 704****Current Topics in Nutrition****1 credit**

Seminars by students, postdoctoral fellows and faculty both internal and external to the University in areas of nutritional sciences

**NS 609****Ethics in Scientific Clinical Research****2 credits**

Students will examine ethical issues in biomedical research using a case-study approach. Representative issues addressed may include data selection and retention, plagiarism, scientific review of grants and manuscripts, scientific misconduct, and informed consent.

**STA 570****Basic Statistical Analysis****4 credits**

Introduction to methods in biological, behavioral and social sciences data analyzing, surveys, the role of statistics in research, statistical concepts and models, probability and distribution functions, estimation, hypothesis testing, regression and correlation, analysis of single and multiple classification models.

**IBS 601/BCH 607****Biomolecules & Metabolism  
or CHE 550 Biological Chemistry I****3 credits**

Introductory biochemistry course designed to provide a basic knowledge of molecular and biochemical principles necessary for advanced graduate study. Protein structure and function, enzyme catalysis, the generation and storage of metabolic energy, amino acid, nucleotide, and lipid metabolism and biological membranes and transport.

**IBS 602/BCH 608****Biomolecules & Molecular Biology  
or CHE 552 Biological Chemistry II****3 credits**

Introductory biochemistry course focused on the cellular mechanisms that underlie the regulated expression of genes, including transcription and translation, as well as basic mechanisms of DNA replication/repair and recombination. Genetic engineering and other experimental approaches critical to molecular biology research will be reviewed.

**IBS 603****Cell Biology****3 credits**

Introduction to cell biology and signaling focused on cell types and architecture, membrane structure, cytoskeletons, mitochondria, cellular mechanisms of development, cell division, cell cycle, apoptosis and prokaryotic cell biology and modulation by bacterial pathogens.

**IBS 606****Integrated Medical Sciences or PGY 502  
Principles of Systems,  
Cellular and Molecular Physiology (5 credits)****4 credits**

The function of the mammalian organism from a perspective ranging from the cellular/subcellular to the organ system and whole organ designed to allow students in the IBS curriculum to develop a truly integrative appreciation of biologic function.

**Electives****6-7 credits****Total 35-36 credits**

**\*\*All Ph.D. students must present 1 seminar prior to qualifying exams and register for one credit in that semester. In addition, all GCNS doctoral candidates will present a seminar once/year post-qualifying exam and enroll in NS 771 for 0 credits.**

**After passing the qualifying exam, students will register for NS 767 (dissertation research) each Fall and Spring Semester, until the dissertation defense is completed.**

**Approved Electives**

Students must successfully complete a minimum of 8 credit hours in electives. Elective courses are recommended by the Advisor and approved by the Advisory Committee.



**Suggested courses are listed below:**

<b>IBS604</b>	<b>Cell Signaling</b>	<b>3 credits</b>
<b>IBS605</b>	<b>Experimental Genetics</b>	<b>2 credits</b>
<b>IBS 607</b>	<b>Seminar in Integrated Biomedical Sciences</b>	<b>0 credit</b>
<b>IBS 609</b>	<b>Research in Integrated Biomedical Sciences</b>	<b>1 credit</b>
<b>NS/NFS 607</b>	<b>Food-Related Behaviors</b>	<b>3 credits</b>
<b>NS/CNU 606</b>	<b>Molecular Biology Applications in Nutrition</b>	<b>2 credits</b>
<b>NS 790</b>	<b>Research in Nutritional Sciences (Before qualifying exam)</b>	<b>1-6 credits</b>
<b>CNU 501</b>	<b>Nutraceuticals and Functional Foods</b>	<b>2 credits</b>
<b>CNU 611</b>	<b>Advanced Medical Nutrition Therapy</b>	<b>2 credits</b>
<b>CNU 612</b>	<b>Examination Skills for the Clinical Nutritionist</b>	<b>2 credits</b>
<b>CNU/NS 604</b>	<b>Lipid Metabolism</b>	<b>3 credits</b>
<b>CNU/NS 608</b>	<b>Nutritional Immunology</b>	<b>3 credits</b>
<b>CNU/NS 605</b>	<b>Wellness and Sports Nutrition</b>	<b>3 credits</b>
<b>CNU/NS 702</b>	<b>Problem-Based Case Studies</b>	<b>1-5 credits</b>
<b>ASC 681</b>	<b>Energy Metabolism</b>	<b>3 credits</b>
<b>ASC 683</b>	<b>Protein metabolism</b>	<b>3 credits</b>
<b>ASC 689</b>	<b>Physiology of Nutrient Digestion/Absorption</b>	<b>3 credits</b>
<b>ASC 684</b>	<b>Advanced Ruminant Nutrition</b>	<b>3 credits</b>



ASC 686	Advanced Non-ruminant Nutrition	3 credits
FSC 638	Food Proteins	3 credits
FSC 640	Food Lipids	3 credits
FSC 434G	Food Chemistry	4 credits
BCH 610	Biochemistry of Lipids and Membranes	3 credits
BCH/BIO/MI 615	Molecular Biology	3 credits
CPH 605/PM 620	Epidemiology	3 credits
CPH 645	Food Systems, Malnutrition and Public Health	3 credits
EDP661	Counseling Techniques II	3 credits
GS610	College Teaching	3 credits
KHP420G	Physiology of Exercise	3 credits
KHP 621	Advanced Exercise Physiology	3 credits
KHP 621	Exercise and Coronary Heart Disease	3 credits
KHP 720	Sport Medicine	3 credits
KHP 781	Theory and Methodology of Body Composition Assessment	3 credits
MI685	Advanced Immunology	3 credits
MI 710	Molecular Cell Biology	3 credits



PGY604	Advanced Cardiovascular Physiology	3 credits
PGY607	Hormonal Control Mechanisms	3 credits
BCH 609	Plant Biochemistry	3 credits
Residency Requirement		
NS767	Residency Credit in Nutritional Sciences (Post-qualifying exam)	2hr/semester

Example of Second Year Ph.D. Curriculum for IBS Students

## Second Year

### Fall Semester

NS 601	Integrated Nutritional Sciences I	3 credits
STA 570	Basic Statistical Analysis	4 credits
NS 771	Graduate Seminar in Nutritional Sciences	1 credit
Elective		1 credit

### Spring Semester

NS 602	Integrated Nutritional Sciences II	3 credits
CNU/NS 603	Integrated Nutritional Sciences III	2 credits
NS 704	Current Topics in Nutrition	1 credit
NS 771	Graduate Seminar in Nutritional Sciences	0 credit
Elective		3 credits

\*IBS 604 & 605 taken in year one will fulfill elective requirements.



### Example of Ph.D. Curriculum for Students Directly Admitted into the Nutritional Sciences Program

#### First Year

##### Fall Semester

BCH 607	Biomolecules & Metabolism or CHE 550 Biological Chemistry I	3 credits
IBS 603	Cell Biology	3 credits
NS 609	Ethics in Clinical Research	1 credit
NS 771	Graduate Seminar in Nutritional Sciences	0 credit
Elective		2 credits

##### Spring Semester

BCH 608	Biomolecules & Molecular Biology	3 credits
IBS 606	Integrated Medical Sciences	4 credits
NS 771	Graduate Seminar in Nutritional Sciences	0 credit
Electives		2 credits

#### Second Year

##### Fall Semester

NS 601	Integrated Nutritional Sciences I	3 credits
NS 771	Graduate Seminar in Nutritional Sciences	0 credit
STA 570	Basic Statistical Analysis	4 credits



Electives 2 credits

### Spring Semester

NS 602	Integrated Nutritional Sciences II	3 credits
NS 603	Integrated Nutritional Sciences III	2 credits
NS 771	Graduate Seminar in Nutritional Sciences	1 credit
NS 704	Current Topics in Nutrition	1 credit
Elective		2 credits

### Doctoral Candidacy


Students become doctoral candidates after passing the qualifying exam. Students have five years to earn their doctoral degree after the exam, unless the Graduate School is petitioned to allow additional time.

### Students who have or will take their qualifying exams in 2005 or later years

Doctoral candidates who have passed their qualifying exam will register for NS 767 (Dissertation Research, 2 hours) every semester; even after all other class work is completed.

### A. Advisor and Advisory Committee

- Step 1: Formation of an Advisory Committee:** Your major professor and advisory committee should be formally appointed by the Graduate School during **your first year in the program**. This will require completion of the "Doctoral Advisory Committee Request" online form ([http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection\\_Screen.cfm](http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection_Screen.cfm)). Every effort should be made to maintain the same committee composition throughout your tenure as a doctoral student. Should a change be necessary, for example when a committee member leaves the university or retires, a formal request must be made to and approved by the Graduate School. To do this you must complete a "Doctoral Advisory Committee Modification Request" form which is also available after you log in.

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- **Step 2: The Qualifying Examination:** At a minimum, you must complete the equivalent of two years of residency (36 graduate credit hours) to be eligible to sit for the qualifying examination. The request to schedule the qualifying examination must be submitted to the Graduate School a minimum of three weeks in advance of the planned date.  
[http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection\\_Screen.cfm](http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection_Screen.cfm)
  - **Step 3: Notification of Intent to Schedule a Final Doctoral Examination (NOTIF):** You are eligible to sit for the final doctoral examination after completion of two semesters of post-qualifying residency. In order to provide sufficient time for the Graduate School to identify an outside examiner, you must submit the NOTIF a **minimum of eight weeks** prior to the anticipated defense date. *To prevent multiple submissions of the NOTIF, this step should not be completed until a complete rough draft of the dissertation has been submitted to your committee chair for review.* [http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection\\_Screen.cfm](http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection_Screen.cfm)
  - **Step 4: Request for Final Doctoral Examination:** This request must be submitted a minimum of two weeks prior to the scheduled date of the examination. Your outside examiner should be provided with a final copy of the dissertation at this time.  
[http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection\\_Screen.cfm](http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection_Screen.cfm)

## B. Qualifying Examination for the Ph.D. Student

A qualifying examination is required of all doctoral students. It verifies that the student has sufficient understanding of and competence in his/her chosen field in order to become a Doctoral Candidate.

- The Qualifying Examination is given after completing the course requirements for the Graduate Center for Nutritional Sciences.
- Students must submit a completed *Recommendation for Qualifying Examination* form ([http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection\\_Screen.cfm](http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection_Screen.cfm)) to the Graduate School at least three weeks prior to the scheduled examination.
- The DGS will report the results of the Qualifying Examination to the Graduate School within 10 days of its conclusion.



If the result of the qualifying exam is failure, the Committee determines the conditions to be met before another examination may be given. The minimum time between examinations is four months; however, a second examination must be taken within one year after taking the first examination. A third examination is not permitted.

The Qualifying Examination should be completed in four weeks and consists of two parts:

**The Qualifying Exam Consists of Three Parts:**

**Part I. Closed book written examinations consisting of questions by each Advisory Committee member.** Students may take each part of the committee member's written examination on separate days; however, the written examination must be completed within one week. (Note: Each faculty is required to provide exam questions that will take approximately three (3) hours for the student to answer.)

**Part II. Open book examinations.** Completion of a research proposal on a novel topic developed in consultation with the advisor and approved by the Advisory Committee. The topic may be related to the thesis project, and must be developed and written independently. The proposal is due seven (7) days before the oral examination and not later than three (3) weeks from the start of the closed book examination. The student is encouraged to initiate development of the proposal as early as possible after entry into the program.

**Part III. Oral exam – will usually concentrate on weakness found in the written exam portions but can be directed to any of the material covered in the students curriculum.**

**C. Doctoral Dissertation**

Prior to the Final Examination, the doctoral candidate must present a dissertation that represents the culmination of a major research project. It must be a well-reasoned, original contribution to knowledge in the field of study and should provide evidence of high scholarly achievement.

The students Advisor will provide the primary guidance in planning and preparing the dissertation, however other members of the Advisory Committee should be consulted and may be involved as well.

The dissertation should be written so that the chapters are the format of manuscripts (which will be submitted to refereed journals for publication).



All core members of the Advisory Committee must read the dissertation prior to signing the Dissertation Approval Form: [http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection\\_Screen.cfm](http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection_Screen.cfm)

The Advisory Committee must approve it two weeks before the scheduled defense.

The dissertation form must conform to the specific instructions prepared by the Graduate School. A copy of the Instructions for the Preparation of Theses and Dissertations may be obtained from the Graduate School Website: <http://www.research.uky.edu/gs/thesdissprep.html>

Students may submit a dissertation either in printed form, or totally electronic form. Although the required format for electronic dissertations (ETDs) is nearly identical to that for the traditional printed version, there are some important differences and exceptions. See ETD Website at: <http://www.uky.edu/ETD>

Students should also review the Graduate School's dissertation requirements in Preparation for Theses and Dissertations ([www.rgs.uky.edu/gs/thesdissprep.html](http://www.rgs.uky.edu/gs/thesdissprep.html))

*Dissertation fee payments should be made at the Student Billing Services, 18 Funkhouser Building. Students may also have their dissertation copyrighted if desired. See the UK Graduate Bulletin for details.* <http://www.research.uky.edu/gs/bulletin/bullinfo.shtml>

#### **D. Final Examination**

The Final Examination will consist of an open formal seminar presentation on the dissertation topic followed by an oral exam. It will include a defense of the dissertation and may be as comprehensive in the major and minor areas as the Advisory Committee chooses. An expanded Advisory Committee chaired by the Advisor conducts the oral examination. The Dean of the Graduate School and the President of the University are "ex officio" members of all final examination committees.

*The examination is a public event; scheduling is published and announced prior to the date of defense. Any member of the University may attend.*

- At least 30 days prior to the Final Examination, following notification by the Advisor that the a copy of the dissertation has been distributed to members of the Advisory Committee, the DGS will present to the Graduate School as *Notification of Intent to Schedule a Final Doctoral Examination*.

[http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection\\_Screen.cfm](http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection_Screen.cfm)

- The Notification form must arrive at the Graduate School a **minimum of 8 weeks** prior to the first day of the anticipated week of defense. At this time, the Graduate Dean appoints an Outside Examiner as a core member of the Advisory Committee.
- The Final Examination must take place no later than **eight days prior to the last day of classes of the semester** in which the student expects to graduate. At the time the Final Examination is scheduled (at least two weeks before the date desired), the *Request for Final Doctoral Examination* [http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection\\_Screen.cfm](http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection_Screen.cfm), plus a signed *Dissertation Approval Form* [http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection\\_Screen.cfm](http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection_Screen.cfm), along with an acceptable copy of the dissertation, must be presented to the Graduate School. The draft must be complete in content, including all footnotes, tables, figures, and appendices. A full bibliography or set of references must be included, along with a title page and abstract.
- After the Final Examination is passed, the final copy of the dissertation is prepared. Final copies are submitted to the Graduate School along with the signature of the Advisor and the DGS.
- The dissertation in its final form must be received in the Graduate School office **within 60 days of the Final Examination**. *If this deadline is not met, the Candidate must undergo a second examination.*

#### E. Application for Degree

An *Application for Degree*, must be filed with the Graduate School **within 30 days** after the beginning of the semester that the student expects to complete his/her work.

<https://myuk.uky.edu/irj/portal>.

#### F. Degree Guidelines/General Graduate School Requirements

*The Ph.D. degree will be conferred on a candidate who has:*

- Completed all coursework
- Passed a comprehensive qualifying examination in nutritional sciences as well as the dissertation project

- Presented a satisfactory dissertation
- Passed a final oral examination
- Shows evidence of creative scholarly attainment

Link to Graduate School Forms: <http://www.research.uky.edu/gs/gforms.html>

### Academic Topics

#### Research Integrity

- All biomedical research at the Graduate Center for Nutritional Sciences follows strict federal and state mandates concerning research protocols, use of laboratory animals and research involving human subjects.
- The Office of Research Integrity (ORI) both supervises and monitors adherence to these mandates. <http://www.research.uky.edu/ori/>
- The ORI also supports the institution in promoting ethical conduct of research and educating UK students and employees regarding research misconduct regulations.
- Students must adhere to all approved protocol and procedures set forth by their mentors.

#### Honor Code/Plagiarism

- Pursuit of a graduate program at the Graduate Center for Nutritional Sciences constitutes an agreement to adhere to high standards of honesty and ethical behavior.
- Cheating, plagiarism, and any scientific misconduct such as falsification of data or deliberate misuse of equipment will be reviewed by the Graduate Program Committee and are causes for dismissal from the program
- Procedures outlined in the UK Student Code will be adhered to with respect to a charge of misconduct. <http://www.uky.edu/StudentAffairs/Code/part1.html>



### Evaluation of Academic Performance (Termination of a Student)

- Student progress will be monitored periodically by the DGS and reviewed by the Graduate Advising Committee
- Students must maintain a semester GPA of at least 3.0 in all coursework, satisfactory performance in lab rotations, satisfactory participation in seminars, and adherence to the rules and procedures described in the handbook.
- Students who fall below a 3.0 GPA in any one semester will be evaluated on an individual basis by the Graduate Program Committee for placement on probation, with the possibility of dismissal.
- Graduate students in a Research Assistant (RA) position must adhere to the contract of the position as defined in the GSAS form. If documentation demonstrates that conditions of the position are not met, then the RA contract may be terminated, pending final approval by the Center Director.

### Communication Skills

- The development of good communication skills is a vital part of graduate education. These skills are improved through a wide range of activities including seminar courses, journal clubs, teaching experiences, the writing of manuscripts, research proposal and grant applications, presentations at local, regional and national meetings, as well as the final dissertation.
- Proficiency in English is required of all graduate students in the Graduate Center for Nutritional Sciences. English as a Second Language classes are available to the Center's students. Please contact the Student Coordinator for further information.

### Research Presentations

Students are encouraged to present research data at national/international professional meeting such as those organized by the Federation of American Societies for Experimental Biology (FASEB), American Association for Cancer Research, American Heart Association, Society for Free Radical Biology and Medicine, American College of Nutrition, American Dietetics Association and Institute of Food



Technologists. These meetings provide an opportunity to interact with peers, faculty and others with common interests.

### **Student Travel Support Requirements**

Support for travel to professional meeting will be provided only when a research paper is to be presented. An application must be completed and accompanied by the following documents:

- An abstract of the paper to be presented
- A copy of the invitation to present or a program confirmation card (a copy of the meeting program with the student's name listed as a presenter).
- An itemized budget of expenses.
- Students must acknowledge the "Graduate Center for Nutritional Sciences" as their affiliation when presenting a paper with slides or a poster.
- Students must submit an application to the Graduate School to obtain travel support.

The Graduate School has established monthly deadlines for the submission of applications requesting travel support.

- Deadlines and the *Student Support Travel* form can be found at <http://www.research.uky.edu/gs/fellowship/studentssupport.html>
- The Graduate School will fund expenses covering no more than three days. Mere attendance at professional meetings will not be supported.

### **Teaching Experience**

- Students are encouraged to attend the Annual Teaching Assistant Orientation Workshop sponsored by the Graduate School each fall.

- Students are also encouraged to take both GS 610 (College Teaching, 1 credit hr) and GS 650 (Preparing Future Faculty, 1 credit hr), to prepare for academic careers and enhance their teaching skills.

### Integrated Biomedical Sciences Program

Students are expected to assist the department in introducing new students to the IBS program. This may include attending lunches and question/answer sessions, or by giving tours or demonstrations at the request of the Chair or DGS.

### Miscellaneous

#### Vacations and Holidays

New students should be aware that graduate school differs from undergraduate study in that graduate work is a full-time endeavor throughout the 12 months of the year. In general, students are expected to be in lab during the workweek when not in class or studying. Students should also be aware that time-sensitive scientific research can often require work on holidays, weekends, and nights. The department recommends the following guidelines for planning time off:

- Students on Research Assistantships should be allowed two weeks of vacation per year in addition to holidays approved for all staff at the University of Kentucky.
- Spring Break is **not** a break for students on assistantship; the Christmas/New Year holiday usually falls between December 25<sup>th</sup> and January 1<sup>st</sup>.
- Effective communication between students and their advisors before vacation times is in everyone's best interest.



### Personal Safety

Students should always consult with a faculty member before using new equipment, toxins, chemicals or infectious agents. Students should also be aware that the University requires specific safety training before using various methods and equipment. The following is a partial list of University web pages where you can register for specific training classes or review appropriate safety manuals.

**Blood Borne Pathogens:** <http://ehs.uky.edu/classes.html>

**Chemicals and Lab Safety:** <http://ehs.uky.edu/classes.html>

**Hazardous Waste:** <http://ehs.uky.edu/classes.html>

**Lab Animals:** [http://www.research.uky.edu/ori/univet/training/Web-Based\\_Training.htm](http://www.research.uky.edu/ori/univet/training/Web-Based_Training.htm)

**Laser Safety:** <http://ehs.uky.edu/radiation/laser.html>

**Radiation Safety:** <http://ehs.uky.edu/radiation/radsafe.html>

**Additional safety information:** <http://ehs.uky.edu/ohs/welcome.html>

### Keys

Requests for lab or equipment room keys must be approved by your research advisor and departmental chair. Key forms are obtained from the departmental administrator.

### Photocopier Privileges

Students may use the departmental photocopier for either research or academic, but not personal, use. An access code may be obtained from the departmental administrator.

### E-Mail

All GCNS Ph.D. Students are required to activate their UK e-mail addresses. All correspondence from the Department as well as from the departmental staff will be communicated only through the UK e-mail system.