



Department of **PHARMACOLOGY** & **NUTRITIONAL SCIENCES**

Handbook:

Ph.D. Program in Nutritional Sciences

University of Kentucky

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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://pharmns.med.uky.edu/pharmns-nutritional-sciences>

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Welcome New Graduate Students

The Division of 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/gs/bulletin/bullinfo.shtml

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Mission

The PhD program in Nutritional Sciences is an interdisciplinary program that provides high-quality educational training and research experience across a wide spectrum of nutrition-related subjects. The program's mission is to train highly skilled nutritional scientists equipped to tackle critical nutrition-related disease and health issues and pursue promising careers in academic, industrial, governmental, and professional environments in the rapidly expanding field of nutritional sciences.

Program Overview

The PhD Program in Nutritional Sciences was established in 1989 to provide an opportunity for advanced multidisciplinary graduate studies in nutrition. Nutritional Sciences became a Graduate Center in 2000, and in 2014, merged with the Department of Pharmacology and became a Division within the Department of Pharmacology and Nutritional Sciences. Through its Ph.D. and Master's of Science programs, the Division of Nutritional Sciences within the merged department enables students to explore the interrelationship between environmental factors and nutrients and their effect on biochemistry, physiology and disease development. Students have access to faculty expertise across 28 departments and divisions at the University's Colleges of Medicine, Pharmacy, Health Sciences, Nursing, Agriculture, Arts and Sciences, and

Education. Administratively, the Center is housed in the Department of Pharmacology and Nutritional Sciences in the College of Medicine.

One of the primary areas of research and training targets nutrition and chronic diseases, with a focus on obesity and associated disorders of cardiovascular disease, diabetes and cancer. Other areas of specialty include nutrition and oxidative stress, clinical nutrition and agricultural nutrition.

More than 60 faculty members provide teaching and individualized research guidance for graduate students in academic units including Animal Sciences; Anthropology; Behavioral Science; Biochemistry; Clinical Sciences; Dietetics and Human Nutrition; Horticulture and Landscape Architecture; Internal Medicine; Kinesiology and Health Promotion; Microbiology and Immunology; Neurology; Nursing; Oral Health Science; Pathology and Laboratory Medicine; Pharmacology; Pharmacy; Physiology; Plant Sciences; Psychiatry; Surgery; and Toxicology.

Research Opportunities and Resources

Approximately 36,000 square feet of laboratory space have been dedicated to Nutritional Sciences. This research space houses state-of-the-art equipment for cell culture, human and animal studies using state-of-the-art trace mineral, vitamin, lipid, amino acid, hormone, enzyme, stable and radioactive isotope, microcirculatory, energy assessment, electrophoresis and molecular biology technologies. The University of Kentucky has in place multiple core facilities, among them a microarray facility as well as cores for electron microscopy, confocal microscopy, flow cytometry and magnetic resonance imaging.

Clinical research facilities for training and research, all within walking distance of each other, include the Center for Clinical and Translational Science, the University of Kentucky Hospital, the Veterans Administration Hospital, Sanders-Brown Center on Aging, the Gill Heart Institute, the University of Kentucky Medical Center Outpatient Clinics, and the Markey Cancer Center. Both the UK Medical Center and the VA Medical Center have clinical research units with ongoing nutritional studies. Opportunities for community-based research exist locally, throughout the state and in international settings.

The University's W.T. Young Library offers more than 2 million volumes and 13 branch libraries, as well as access to eJournals and eBooks. Two of these libraries are of particular value to students in Nutritional Sciences: the Agriculture Library, located in the Agricultural Science Center North, and the Medical Library, located in the Medical Center. More information can be obtained by referring to the Graduate School Bulletin or calling the appropriate library.

ADMISSIONS

There are two ways to be admitted into the Nutritional Sciences PhD Program:

1. Through the Integrated Biomedical Sciences Program (IBS)

The IBS program is composed of first year biomedical graduate students in the College of Medicine, University of Kentucky. Participating departments and centers include Anatomy & Neurobiology; Microbiology, Immunology & Molecular Genetics; Pharmacology & Nutritional Sciences; Molecular & Cellular Biochemistry; Toxicology & Cancer Biology; and Physiology. The IBS Program consists of both coursework and laboratory rotations completed during the first year of graduate school. 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 scientific lab and to find a faculty member who will serve as a research advisor. Selection of a research advisor is a mutual decision of the student and faculty member and is made by the end of the spring semester.

Detailed information about applying to the IBS program can be obtained at:

<http://graduate.med.uky.edu/integrated-biomedical-sciences> or by directly contacting the IBS program by e-mail: COMIBS@uky.edu.

2. Direct admission into Nutritional Sciences:

Applicants must meet the following requirements for admission to the University of Kentucky Graduate School and the Graduate Program in Nutritional Sciences:

1. A baccalaureate degree from a fully accredited institution of higher learning.
2. An M.S. degree with a Grade Point Average (GPA) of 3.2 or above on a 4.0 scale, or a B.S. degree with a GPA of 3.0 or above on a 4.0 scale.
3. An average Graduate Record Examination (GRE) score on the verbal, quantitative and analytical sections that is greater than the 50th percentile.
4. For international applicants, a minimum score of 550 out 667 maximum possible is required on the paper-based Test of English as a Foreign Language (TOEFL), a minimum 213 score on the computer-based TOEFL (maximum 300), or 79 on the internet-based TOEFL. The minimum International English Language Testing Service (IELTS) score is 6.5. All applicants must demonstrate proficiency in verbal and written English.

All those interested in graduate study at the University of Kentucky Graduate School must apply online via Hobson's [ApplyYourself Application Network](#). There is a \$65 application fee for domestic applicants and a \$75 application fee for international applicants. Please note that the application cannot be submitted without paying this fee.

The following information must be submitted online to the Graduate School via [ApplyYourself](#):

1. **Transcripts** from all higher education institutions attended. The Graduate School requires an overall undergraduate grade point average of 2.75 and 3.00 on all graduate work.
2. **GRE** scores are required for admission. GRE scores should be sent directly from Educational Testing Service (ETS); the Institutional Code for the GRE for the UK Graduate School is R1837.
3. **TOEFL or IELTS** scores are required for all applications whose native language is not English.
 - TOEFL scores should be sent directly from ETS; the Institutional Code for the TOEFL for the UK Graduate School is R1837.

- IELTS scores should be sent directly from the IELTS, specifying the University of Kentucky Graduate School, Lexington, KY as the recipient institution.
4. Curriculum vitae
 5. A brief essay, no longer than two single-spaced pages, describing long-term career goals and how the Ph.D. Program in Nutritional Sciences would advance these goals.
 6. Three letters of recommendation
 7. Completed [Research Assistant Application Form](#).

Courses taken the first year by students in Nutritional Sciences will vary, depending on whether the student enters the program directly, or through the IBS program.

FIRST YEAR CURRICULUM FOR STUDENTS ENTERING THROUGH IBS:

IBS Curriculum, FALL Semester

IBS601	Biomolecules and Metabolism (3*)
IBS602	Molecular Biology and Genetics (3)
IBS610	Critical Reading/Small Groups (2)
IBS611	Practical Statistical Applications (1)
IBS607	Seminar in IBS (0)
IBS609	Research in IBS (1)

IBS Curriculum, SPRING Semester

IBS603	Cell Biology and Cell Signaling (3)
IBS606	Physiological Communications (3)
IBS608	Special Topics in IBS (2)
IBS607	Seminar in IBS (0)
IBS609	Research in IBS (1)
TOX600	Ethics (1)

SAMPLE FIRST YEAR CURRICULUM FOR STUDENTS DIRECTLY ADMITTED INTO NUTRITIONAL SCIENCES

YEAR 1, FALL Semester

IBS 601	Biomolecules & Metabolism	3 credits
IBS 602	Molecular Biology and Genetics	3 credits
NS 609	Ethics in Clinical Research	1 credit
NS 771	Graduate Seminar in Nutritional Sciences	0 credit
Elective		2-3 credits

YEAR 1, SPRING Semester

IBS 603	Cell Biology and Cell Signaling	3 credits
IBS 606	Physiological Communications	3 credits
NS 771	Graduate Seminar in Nutritional Sciences	0 credit
Elective		2-3 credits

SAMPLE NUTRITIONAL SCIENCES PhD CURRICULUM: YEAR 2

Courses taken the second year will vary, depending on whether the student entered the program directly or through the IBS program, and the particular interest of the student.

YEAR 2 CURRICULUM, FALL Semester (example)

NS 601	Integrated Nutritional Sciences I	3 credits
STA 570	Basic Statistical Analysis	4 credits
NS 771	Graduate Seminar in Nutritional Sciences	0 credit
CNU/NS 603	Integrated Nutritional Sciences III	2 credits
Elective		variable

YEAR 2 CURRICULUM, SPRING Semester (example)

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

Elective

≥4 credits

ELECTIVES COURSES

Students must successfully complete a minimum of 7-12 credit hours in electives to meet the minimum requirement of 36 total credits. Elective courses are recommended by the Advisor and approved by the Advisory Committee.

Note, IBS 610 & 608 taken in year one by students admitted through the IBS program fulfill elective requirements.

Approved electives in Nutritional Sciences PhD program:

IBS 607	Seminar in Integrated Biomedical Sciences	0 credit
IBS 608	Special Topics in Integrated Biomedical Sciences	2 credits
IBS 609	Research in Integrated Biomedical Sciences	1 credit
NS/606	Molecular Biology Applications in Nutrition	2 credits
NS 790	Research in Nutritional Sciences (Before qualifying exam)	1-6 credits
CNU 501	Nutraceuticals and Functional Foods	2 credits
CNU 502	Obesity C2C: Cell to Community	2 credits
CNU 611	Advanced Medical Nutrition Therapy	2 credits
CNU 612	Examination Skills for the Clinical Nutritionist	2 credits
CNU/NS 604	Lipid Metabolism	3 credits
CNU/NS 605	Wellness and Sports Nutrition	3 credits
CNU/NS 702	Problem-Based Case Studies	1-5 credits
DHN 603	Advanced Community Program Development	3 credits
ASC 681	Energy Metabolism	3 credits
ASC 683	Protein metabolism	3 credits
ASC 689	Physiology of Nutrient Digestion/Absorption	3 credits
ASC 684	Advanced Ruminant Nutrition	3 credits
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 620	Advanced Exercise Physiology	3 credits
KHP 720	Sports Medicine	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

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. Doctoral candidates who have passed their qualifying exam will register for **NS 767** (Dissertation Research, **2 credit hours**) every semester.

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). 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. The list of NS graduate faculty is found here: <https://pharmns.med.uky.edu/pharmns-nutritional-science-faculty> . 3 of your committee members must come from this list; the 4th member must be a faculty member who is NOT on this list.
- **Step 2: The Qualifying Examination (3 Parts):** 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
- **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.

The DGS will not submit the NOTIF on behalf of the student unless two conditions are met:

- 1) A rough draft of the dissertation is submitted electronically to the DGS; and
- 2) The major advisor notifies the DGS in writing that the student is on track to complete a final draft at least two weeks before the scheduled defense. (Dissertation Progress Form)

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

- **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
- A check Sheet for Doctoral Students can be found here: http://www.research.uky.edu/gs/Forms/Check_sheet_Doctoral_Students.pdf

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 of the Nutritional Sciences PhD program.
- Students must submit a completed *Recommendation for Qualifying Examination* form (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.

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 student's curriculum.

Preparing for the Qualifying Exam:

A qualifying examination is required of all doctoral students. It is given after completing the course requirements for the Nutritional Sciences PhD program. 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 should be completed in four weeks starting with the first day of the closed book exam.**

The Qualifying Exam Consists of Three Parts:

- (1) The completion of a research proposal on a novel topic developed in consultation with the advisor and approved by the Advisory Committee,
- (2) closed book written examinations consisting of questions by each Advisory Committee member and
- (3) an oral Exam.

Step 1: You are required to complete 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.

Step 2: Schedule a time to take your oral exams with your Advisory Committee. A helpful website to use when trying to schedule a time to meet with committee member is www.doodle.com. Next, reserve a room for your oral exam. For help finding a room email Veronique Thibault (vthibau@uky.edu). Finally, submit a completed Recommendation for Qualifying Examination form to the Graduate School at least three weeks prior to the scheduled examination:
(http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection_Screen.cfm)

Step 3: Schedule a time to take your closed-book written exams. They should be scheduled no more than 4 weeks before the date of your oral exam. You may take each committee member's written examination on separate days; however, the written examination must be completed within one week. Your advisor should email all members of the committee and request that they provide examination questions.

Step 4: Your oral exam will usually concentrate on weaknesses found in the written exam portions, but can be directed to any of the material covered in the curriculum.

The DGS will send the advisor the degree card and evaluations for all committee members to complete. Your advisor should return the signed degree cards to the DGS or someone in the main office, who will deliver to The Graduate School.

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.

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).

The Advisory Committee must approve the dissertation 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/CurrentStudents/theses_prep.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.

- 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** before the anticipated defense date. The DGS will not submit the NOTIF on behalf of the student unless two conditions are met:
 - 1) A rough draft of the dissertation is submitted electronically to the DGS; and
 - 2) The major advisor notifies the DGS in writing that the student is on track to complete a final draft at least two weeks before the scheduled defense. (Dissertation Progress Form)

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

- 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. Once an Outside Examiner is appointed, a date and time can be set for the exam. A helpful website to use when trying to schedule a time to

meet with committee member is www.doodle.com . Next, reserve a room for your oral exam. For help finding a room email Veronique Thibault (vthibau@uky.edu).

- Next, the Final Examination can be scheduled. This must be done at least two weeks before the date desired, using the *Request for Final Doctoral Examination* form: http://www.research.uky.edu/cfdocs/gs/DoctoralCommittee/Selection_Screen.cfm . 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. 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.
- 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.*
- **Cancellation of a Final Examination** (<http://ukgrad.askadmissions.net/ask.aspx>):
A Final Examination may be canceled prior to its official start for substantive reason with no permanent consequences for the student. The student has not failed the examination in this case because it was never officially begun. Substantive reasons can include a missing committee member, a sudden difficulty in the candidate's personal life that may affect performance, or a (late) opinion on the part of one or more committee members that the dissertation is not ready to defend. In such cases, the committee may hold an open or closed discussion to review the issues at hand and reach a decision on whether to hold the examination or not. Furthermore, the candidate does have the right to cancel the examination before it begins. If the examination is canceled, it must be formally rescheduled with the Graduate School in the standard fashion. A minimum two-week interval is required for re-scheduling the 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> (Click on Student Services / myRecords / Graduate Degree Application)

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/forms.html>

GENERAL TIMELINE FOR DEGREE PROGRAM

Before the First Semester

1. Meet with the Director of Graduate Studies and develop a coursework plan for the first semester and a preliminary plan for the rest of your program.
2. Attend the new student orientation.

First Year

1. The number one priority for your first semester is to do well in your courses.
2. Perform laboratory rotations, if applicable. By the end of the first year, you will need to identify an advisor who can support your graduate stipend.

Second Year

1. Continue to do well in your courses
2. Work on your research project
3. Form a graduate committee, in consultation with your advisor, by the beginning of your second year.
4. In the second semester of your second year, you will need to present a seminar in the Department of Pharmacology and Nutritional Science seminar series (NS 771).
5. By the end of your second semester of your second year, have a committee meeting that sets a timeline for your qualifying exam.

Third Year

1. Take and pass your qualifying exam
2. Work on research project

Fourth and Subsequent Years

1. Work on research project
2. Present your research once per year in the seminar series (NS 771).

Final Semester

1. File Application for Degree with the Graduate School: An Application for Degree must be filed with the Graduate School via MyUK within 30 days after the beginning of the semester. Go to the following website: <https://myuk.uky.edu/irj/portal> After logging in, click on Student Services / myRecords / Graduate Degree Application
2. The procedure for preparing your dissertation and scheduling your final exam are listed above in the Doctoral Dissertation and Final Exam sections.

ACADEMIC TOPICS

Research Assistantships

- Candidates for a Ph.D. are required to apply for a Research Assistantship, which represents an integral part of the Ph.D. program.

Research Integrity

- All biomedical research in the Division of 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 degree in 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)

- Students are required to submit an Individual Development Plan (IDP) and updated *curriculum vitae* annually to the Graduate Coordinator, Veronique Thibault, (MS310 UKMC; Phone: (859) 323-6124; E-Mail: vthibau@uky.edu). Student progress will be 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 Director of Nutritional Sciences.

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 Nutritional Sciences program. English as a Second Language classes are available to the Division'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 Diabetes 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 "Division of 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/StudentFunding/supportfunding.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 (IBS)

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 25th and January 1st.
- Effective communication between students and their advisors before vacation times is in everyone's best interest.
- RA's must submit a UK Absence Record, signed by both the student and the advisor for all travel, sick, and vacation time. These records will be maintained in the GCNS payroll files for each RA.

Health Care Colleges Code of Student Professional Conduct:

<http://www.uky.edu/regs/files/HCCcode.pdf>

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/>

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

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

Lab Animals: http://www.research.uky.edu/ori/univet/training/Web-Based_Training.htm

Laser Safety: <http://ehs.uky.edu/classes/>

Radiation Safety: <http://ehs.uky.edu/classes/>

Additional safety information: <http://ehs.uky.edu/>

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 Nutritional Sciences 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.