

CHANGE DOCTORAL DEGREE PROGRAM FORM

GENERAL INFORMATION

College:	<u>Medicine</u>	Department:	<u>Toxicology and Cancer Biology</u>
Current Major Name:	<u>Toxicology and Cancer Biology</u>	Proposed Major Name:	<u>Toxicology and Cancer Biology</u>
Current Degree Title:	<u>Ph.D.</u>	Proposed Degree Title:	<u>Ph.D.</u>
Current Formal Option(s):	<u>n/a</u>	Proposed Formal Option(s):	_____
Current Specialty Fields w/in Formal Option:	<u>n/a</u>	Proposed Specialty Fields w/in Formal Option:	_____
Date of Contact with Associate Provost for Academic Administration ¹ :			
		<u>9/17/2019</u>	
Bulletin (yr & pgs):	_____	CIP Code ¹ :	<u>26.1004</u>
		Today's Date:	<u>9/17/19</u>
Accrediting agency (if applicable):	<u>n/a</u>		
Requested Effective Date:	<input checked="" type="checkbox"/> Semester following approval.	OR	<input type="checkbox"/> Specific Date ² : _____
Dept Contact Person:	<u>David Orren</u>	Phone:	<u>323-3612</u>
		Email:	<u>dkorre2@uky.edu</u>

CHANGE(S) IN PROGRAM REQUIREMENTS

	<u>Current</u>	<u>Proposed</u>
1. Number of transfer credits allowed:	<u>9</u>	<u>9</u>
<i>(Maximum is Graduate School limit of total of 9 hours (or 25% of the credit hours needed to fulfill the pre-qualifying residency requirement.)</i>		
2. Residence requirement:	<u>no change</u>	<u>no change</u>
<i>(Minimum of one year before and after Qualifying Exams.)</i>		
3. Language(s) and/or skill(s) required:	<u>no</u>	<u>no</u>
4. Provisions for monitoring progress and termination criteria:	<u>yes</u>	<u>yes</u>
5. Total credit hours required:	<u>36</u>	<u>36</u>
6. Required courses:	<u>18</u>	<u>18</u>
7. Required distribution of courses within program:	<u>36 credit hrs (prequalifying) including 18 required courses for 31 credit hrs and electives for a minimum of 5 credit hours.</u>	<u>36 credit hrs (prequalifying) including 18 required courses for a minimum of 36 credit hrs (see attachment for details).</u>
8. Minor area or courses outside program required:	<u>1</u>	<u>1</u>
9. Distribution of courses levels required	<u>(400G-500) 0 or 2 credit hr</u>	<u>(400G-500) 0 or 2 credit hr</u>

¹ Prior to filling out this form, you MUST contact the Associate Provost for Academic Administration (APAA). If you do not know the CIP code, the APAA can provide you with that during the contact.

² Programs are typically made effective for the semester following approval. No program will be made effective until all approvals are received.

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(400G-500/600-700):	<u>(600-700) 29 or 31 credit hr plus 5 credit hr accepted elective</u>	<u>(600-700) 34 or 36 credit hr (see attachment for details).</u>
10. Qualifying examination requirements:	<u>Yes</u>	<u>Yes</u>
11. Explain whether the proposed changes to the program (as described in numbers 1 through 10) involve courses offered by another department/program. <u>Routing Signature Log must include approval by faculty of additional department(s).</u>		
<u>No courses offered by other departments would be directly affected by the current change.</u>		
12. Other requirements not covered above:		
<u>no changes to admission, progression or graduation requirements.</u>		
13. What is the rationale for the proposed changes? If the rationale involves accreditation requirements, please include specific references to those requirements.		
<p><u>The current second year curriculum requirement for our Ph.D. program consists of a minimum of 14 credit hours of intensive coursework, which is substantially higher than that of other biomedical science programs in the College of Medicine. For example, doctoral students in Molecular and Cellular Biochemistry or Microbiology, Immunology, and Molecular Genetics Programs are required to complete a minimum of 8 or 10 credit hours of intensive coursework, respectively, in their second year. Thus, the rationale for the change proposed here is to bring our Ph.D. curriculum more in agreement with course requirements of other biomedical sciences Ph.D. programs in the College of Medicine. Our proposed change eliminates elective courses as an absolute requirement for the Ph.D. degree in Toxicology and Cancer Biology, although doctoral students are still free to take electives as part of their training. Any credit hours lost by eliminating our elective requirement would be compensated for by increasing credit in other courses. Specifically, credit hours in TOX790 (Research in Toxicology) would be increased, primarily during the 2nd year in the program, and students would receive 1 credit hour/semester (instead of 0 credit hours) for their first four semesters in TOX770-001 (Toxicology Seminar). The attached document specifies the details of the current and proposed Ph.D. curricula. Importantly, this change will allow our Ph.D. students to focus more on their thesis research during their second year and thus permit them to be more productive researchers and successfully attain their degrees earlier. This change should also help provide relative consistency compared with other biomedical sciences doctoral programs for recruitment of Ph.D. students initially admitted through the Integrated Biomedical Sciences program.</u></p>		

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Signature Routing Log

General Information:

Proposal Name: Toxicology and Cancer Biology Ph.D. curriculum update 2019

Proposal Contact Person Name: David Orren

Phone: 323-3612

Email: dkorre2@uky.edu

INSTRUCTIONS:

Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

Internal College Approvals and Course Cross-listing Approvals:

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
Biomedical Education	12/3/19	Beth Garvy 323-5043 / / bgarv0@uky.edu	Beth Garvy, Phd, Chair
Committee		/ /	
		/ /	
		/ /	
		/ /	

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision ³
Undergraduate Council			
Graduate Council	4/30/2020	<i>Roshan Nikou</i>	
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:

³ Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.



UNIVERSITY OF KENTUCKY

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April 27, 2020

Re: Toxicology and Cancer Biology Ph.D. Program Change

To whom it may concern:

This letter is in regards to the Ph.D. program change proposal submitted by Dr. David Orren in our department. Upon the request of the faculty, this program change was initiated and debated by our departmental Education Committee to arrive at the proposed changes in curriculum requirements. The Education Committee unanimously endorsed this proposal which was subsequently put on the agenda for our regular faculty meeting of September 17, 2019. At this meeting, Dr. Orren presented the program change proposal and there was no objection to the proposal being implemented as designed.

Please feel free to contact me if further information or clarification is needed.

Best regards,

A handwritten signature in black ink, appearing to read 'Xiaoqi Liu', on a light blue background.

Xiaoqi Liu, Ph.D.
Professor and Chair
Department of Toxicology and Cancer Biology
University of Kentucky College of Medicine
306 HSRB, 1095 V.A. Drive
Lexington, KY 40536-0305

Email: Xiaoqi.Liu@uky.edu

GOAL: To revise the TOX Ph.D. curriculum requirements to bring our coursework requirements more in agreement with other biomedical sciences Ph.D. programs, allowing our students to spend more time on their thesis research at an earlier stage, be more productive in research, and permit them to successfully obtain their degrees earlier.

Model approved by the TOX faculty (see page 2)

Remove the absolute requirement for electives, with any reduction in credit hours towards the 36 h requirement being compensated by increasing credit for TOX790 (Research in Toxicology) and providing 1 credit hour/semester for TOX770-001 (Toxicology Seminar) for the first four semesters of the program.

Current Curriculum for Ph.D. in TOX/Cancer Biology

Pre-qualifying

Common Core

Course No: Title	Credit Hour
IBS601: Biomolecules and Metabolism	3
IBS602: Molecular Biology and Genetics	3
IBS603: Cell Biology and Signaling	3
IBS606: Physiological Communication	3
IBS608: Special Topics in IBS (4 x 0.5 h mini-courses)	2
IBS610: Critical Scientific Readings	2
IBS611: Practical Statistics	1
TOX600: Ethics in Scientific Research	1
TOX770-001: Toxicology Seminar ¹	0
TOX770-002: Toxicology Seminar/Orientation-Journal Club	1
TOX780: Special Problems in Toxicology	2
TOX790: Research in Toxicology (or IBS609) ²	≥4
Subtotal	≥24

Additional requirements: students must take at least 3 of the following 4 courses

TOX509: Environmental and Regulatory Toxicology	Fall	2
TOX663: Drug Metabolism and Disposition	Fall	2
TOX680: Molecular Toxicology and Carcinogenesis	Spring	3
MI616: Biology and Therapy of Cancer	Spring	3
Subtotal		≥7
2 or more elective courses (from a list of recommended/approved electives)		≥5
TOTAL		≥36

Post-qualifying

TOX767: Dissertation Residency Credit ³	2/semester
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PROPOSED PRE-QUALIFYING CURRICULUM for TOXICOLOGY and CANCER BIOLOGY Ph.D. Degree

<u>Proposed Common Core (Pre-qualifying)</u>		<u>Credit Hour</u>
IBS601: Biomolecules and Metabolism		3
IBS602: Molecular Biology and Genetics		3
IBS603: Cell Biology and Signaling		3
IBS606: Physiological Communication		3
IBS608: Special Topics in IBS (4 x 0.5 h mini-courses)		2
IBS610: Critical Scientific Readings		2
IBS611: Practical Statistics		1
TOX600: Ethics in Scientific Research		1
TOX770-001: Toxicology Seminar ¹		4
TOX770-002: Toxicology Seminar/Orientation-Journal Club		1
TOX780: Special Problems in Toxicology		2
TOX790: Research in Toxicology (or IBS609) ²		<u>≥4*</u>
	Subtotal	<u>≥29</u>
<u>Additional requirements: students must take at least 3 of the following 4 courses</u>		
TOX509: Environmental and Regulatory Toxicology	Fall	2
TOX663: Drug Metabolism and Disposition	Fall	2
TOX680: Molecular Toxicology and Carcinogenesis	Spring	3
MI616/TOX616: Biology and Therapy of Cancer	Spring	3
	Subtotal	≥7
	TOTAL	≥36

Footnotes:

¹Ph.D. students register for TOX770-001 until residency is completed and again in the semester in which they present a seminar (required for the degree). With the proposed change, students would receive 1 h credit in each of their first four semesters of TOX770-001.

²Students can enter the Toxicology and Cancer Biology Ph.D. program directly or through the Integrated Biomedical Sciences (IBS) program, the latter taking a slightly different slate of courses during their first year. Specifically, those that enter directly register for TOX790 for at least 1 h credit in their first four semesters in the program. IBS students register for IBS609 for 3 h credit in their first two semesters, then at least 1 h credit of TOX790 in their third and fourth semesters.

³Ph.D. students register for TOX767 each semester post-qualifying until successful completion of their dissertation.