

CHANGE DOCTORAL DEGREE PROGRAM FORM

Current Specialty Fields w/in Formal Option: =	Proposed Specialty Fields w/in Formal Option: =	
Date of Contact with Associate Provost for Academic Administration ¹ : <u>N/A</u>		
Bulletin (yr & pgs): <u>July 2015, pg. 172</u>	CIP Code ¹ : <u>14.1901</u>	Today's Date: <u>June 16, 2016</u>
Accrediting agency (if applicable): <u>SACS</u>		
Requested Effective Date: <input type="checkbox"/> Semester following approval.		OR <input checked="" type="checkbox"/> Specific Date ² : <u>Spring 2017</u>
Dept Contact Person: <u>Dr. Haluk Karaca</u>	Phone: <u>80666</u>	Email: <u>karacahaluk@uky.edu</u>

CHANGE(S) IN PROGRAM REQUIREMENTS

	<u>Current</u>	<u>Proposed</u>
1. Number of transfer credits allowed: <small>(Maximum is Graduate School limit of total of 9 hours (or 25% of the credit hours needed to fulfill the pre-qualifying residency requirement.)</small>	<u>9 or 25% of credit hrs needed to fulfill prequal res requirement</u>	<u>9 or 25% of credit hrs needed to fulfill prequal res requirement</u>
2. Residence requirement: <small>(Maximum of one year before and after Qualifying Exams.)</small>	<u>One year before and after Qualifying Exams</u>	<u>One year before and after Qualifying Exams</u>
3. Language(s) and/or skill(s) required:	<u>N/A</u>	<u>N/A</u>
4. Provisions for monitoring progress and termination criteria:	=	=
5. Total credit hours required:	<u>48</u>	<u>36</u>
6. Required courses:	<u>N/A</u>	<u>N/A</u>
7. Required distribution of courses within program:	_____	_____
8. Minor area or courses outside program required:	<u>Math course requirement is 9 credits: Any 400G, 500, or 600 level course offered by UK Department of Math (except MA 432G), and/or 500/600 level courses offered by UK Statistics Department</u>	<u>Math course requirement is 6 credits: Any 400G, 500, or 600 level course offered by UK Department of MATH (Except MA 432G), and/or 500/600 level courses offered by UK Statistics Department</u>
9. Distribution of courses levels required (400G-500/600-700):	_____	<u>36 Credits required for ME PhD Degree. 6 Credits of Math- any 400G, 500, or 600 level course offered by UK Math Department (Except MS 432G), and or 500/600 level courses offered by UK Statistics Department.</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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Current Formal
Option(s):

- Earn 48 graduate credit-hours taken at the University of Kentucky while in graduate standing after receiving a bachelor's degree. Alternatively, those with a M.S. may satisfy this requirement by earning 24 graduate credit-hours taken at UK. Students with a M.S. from another institute are required to obtain a letter from the DGS recommending the transfer of credit.
- Residency and research courses may not be used to satisfy this requirement.
- 9 hours maximum in topics courses (e.g. ME 599, ME 699)
- 6 hours maximum (including those taken for MS) in project courses (e.g. ME 780).
- 50% of required hours must be in ME courses.
- At least half of the required hours must be at the 600 level.
- No more than nine (9) credit hours of the above requirement may be waived based on courses taken at other institutions. The decision on this waiver will be made by the DGS upon recommendation of the student's Advisory Committee. Non-UK courses are subject to all of the above conditions.
- Maintain a 3.333 overall GPA
- Pass the Pre-Qualifying Examination after the first semester of the Ph.D. program. Pass the Ph.D. Written Qualifying Exam.
- Pass the Ph.D. Oral Qualifying Exam.
- Pass the Final Examination. This exam is mandated by the Graduate School, and therefore all Graduate School regulations regarding this exam must be met.
- Meet all applicable Graduate School regulations.

Proposed Formal
Option(s):

- Earn 36 graduate credit-hours taken at the University of Kentucky while in graduate standing after receiving a bachelor's degree.
- Alternatively, an awarded MS degree from UK or another accredited school may satisfy up to 18 of the 36 hour pre-qualifying requirement. Such requests should be made by the DGS to the Senior Associate Dean of the Graduate School.
- At least 6 credit hours must be from courses with prefixes MA, STA, or with DGS approval.
- Alternatively, those with prior MS, 3 credit hours must be from courses with prefixes MA or STA, or from a pre-approved math course list
- Residency and research courses may not be used
- Maximum 3 credit hours can be from Project courses (e.g. ME 780)
- At least 50% of required credit hours must be in ME courses.
- At least 50% of required credit hours must be 600 level or greater
- No more than 6 credit hours of the above requirement may be waived based on courses taken at other institutions. The decision on this waiver will be made by the DGS upon recommendation of the student's Advisory Committee.
- Pass Pre-Qualifying Examination after the first semester of the Ph.D. program. Pass the Ph.D. Written Qualifying Exam.
- Pass the Ph.D. Oral Qualifying Exam.
- Pass the Final Examination. This exam is mandated by the Graduate School, and therefore all Graduate School regulations regarding this exam must be met.
- Meet all applicable Graduate School regulations.

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18 hours- 600 level or greater
18 hours- should be ME

<p>10. Qualifying examination requirements:</p>	<p><u>This exam inspects the soundness of the student's proposed doctoral dissertation research. A prospectus prepared by the student and submitted to the student's Advisory Committee is required two (2) weeks in advance of the exam. Only those who have passed the Preliminary Exam and have satisfied the Ph.D. mathematics requirement may sit for this exam. As this is an exam mandated by the Graduate School, all Graduate School regulations regarding this exam must be met.</u></p>	<p><i><u>This exam inspects the soundness of the student's proposed doctoral dissertation research. A prospectus prepared by the student and submitted to the student's Advisory Committee is required two (2) weeks in advance of the exam. Only those who have passed the Preliminary Exam and have satisfied the Ph.D. mathematics requirement may sit for this exam. As this is an exam mandated by the Graduate School, all Graduate School regulations regarding this exam must be met.</u></i></p>
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11. Explain whether the proposed changes to the program (as described in numbers 1 through 10) involve courses offered by another department/program. Routing Signature Log must include approval by faculty of additional department(s).

12. Other requirements not covered above:

13. What is the rationale for the proposed changes? If the rationale involves accreditation requirements, please include specific references to those requirements.

As a major research institute, University of Kentucky heavily relies on the research conducted by PhD students. As the nature of research becomes more interdisciplinary, we need to be flexible about the courses they take as opposed to just forcing them into a discipline specific mold. Additionally, the delay in committing to their thesis research leads to extending the length of time it takes for them to achieve the level of thesis research required to graduate, which increases the financial burden required to support each student, and decreases our graduation rate. The proposed changes will encourage students to spend more time engaged in their own research and build their intellectual growth, which are the hallmarks of an advanced degree. Thus with the reduction of coursework, we expect higher yield in their research and better and more publications from our students, which is better for their career path and our department.

Providing room for research activities by reducing the required credits, providing more flexible course selection options and involving the student's advising committee earlier in course selections are the main aims of this change. With the current plan, we expect student to finish their course in two years and then take the qualifying exam to focus on their research afterwards.

We also are seeking to make the transfer of credits from MS to PhD compatible with current graduate school requirements.

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GENERAL INFORMATION

College:	<u>Engineering</u>	Department:	<u>Mechanical Engineering</u>
Current Major Name:	<u>Mechanical Engineering</u>	Proposed Major Name:	<u>Mechanical Engineering</u>
Current Degree Title:	<u>The Doctor of Philosophy Degree</u>	Proposed Degree Title:	<u>The Doctor of Philosophy Degree</u>

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Signature Routing Log

General Information:

Proposal Name: Mechanical Engineering PhD Change Proposal




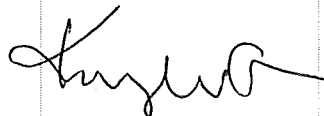
Proposal Contact Person Name: Dr. Haluk Karaca Phone: 859-218-0666

Email: karacahaluk@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
ME Director of Grad Studies	8/2/16	Haluk Karaca / 859-218-0666 / Karacahaluk@uky.edu	
ME Department Chair	8/2/16	Michael Renfro / 859-218-0643 / Michael.Renfro@uky.edu	
Assc. Dean for Research & Graduate Studies	9/7/16	David Puleo / 859-257-5727 / dave.puleo@uky.edu	
Assc. Dean for Administration & Academic Affairs, College of Engineering	10/5/16	Kimberly Anderson / 859-257-1864 / kimberly.anderson@uky.edu	
		/ /	

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision ³
Undergraduate Council			
Graduate Council		<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.