University Senate
2016-17 Academic Year

Monday, December 12, 2016

1. Minutes from November 14, 2016 and Announcements
2. Officer and Other Reports
    1. Chair
    2. Vice Chair
    3. Parliamentarian
    4. Trustee
3. Provost Tim Tracy (20 minutes)
4. Old Business
    1. Committee Reports
        1. Senate's Admissions and Academic Standards Committee (SAASC) – Scott Yost, Chair
            1. Proposed Admissions Requirement Change for BHS in Clinical Leadership and Management (PDF)
        2. Senate's Academic Programs Committee (SAPC) – Margaret Schroeder, Chair
            1. Proposed Suspension of BS International Studies (PDF)
5. Degree Recipients
    1. December 2016 In Memoriam Degree List
        1. College of Education Student
        2. College of Nursing Student
        3. College of Nursing Student
        4. College of Nursing Student
        5. College of Arts and Sciences Student
    2. December 2016 Degree List
6. Committee Reports
    1. Senate's Academic Programs Committee (SAPC) – Margaret Schroeder, Chair
        1. Proposed New Undergraduate Certificate in Film Studies (PDF)
        2. Proposed New PhD Radiation and Radiological Sciences (PDF)
        3. Proposed New Undergraduate Certificate in Social Sciences Research (PDF)
        4. Proposed New Graduate Certificate in High Performance Coaching (PDF)
    2. Senate Committee on Distance Learning and eLearning (SCDLeL) – Roger Brown, Chair
        1. Proposed Changes to Senate Rules 1.4.2.13 (“Senate Committee on Distance Learning and eLearning (SCDLeL)”) (PDF)
7. Update on Honors College Transition Committee (HCTC) – Interim Dean Phil Harling
    - HCTC Membership and Charge (PDF)
    - Soliciting Input - Proposed, Draft Change to Honors Curriculum, from 21 Credits to 30 Credits (PDF)
8. Items from the Floor (Time Permitting)

Next meeting: Monday, February 13, 2016 (3 pm, W. T. Young Library Auditorium)

CHANGE UNDERGRADUATE PROGRAM FORM

1. General Information

College:	College of Health Sciences	Department:	Clinical Sciences- Division of HSER
Current Major Name:	Clinical Leadership and Management	*Proposed Major Name:*	*Same*
Current Degree Title:	BHS	*Proposed Degree Title:*	*BHS*
Formal Option(s):	Associates to Degree or Entry Level to Degree in Clinical Leadership and Management	*Proposed Formal Option(s):*	Associates to Degree or Entry Level to Degree in Clinical Leadership and Management
Specialty Field w/in Formal Option:	Healthcare Administration	*Proposed Specialty Field w/in Formal Options:*	*Long-Term Care Administration*

Date of Contact with Associate Provost for Academic Administration[1]:	11/18/2014				
Bulletin (yr & pgs):	249250	CIP Code[1]:		Today's Date:	
Accrediting Agency (if applicable):					
Requested Effective Date:	☒ Semester following approval.	OR	☐ Specific Date[2]:		
Dept. Contact Person:	Dr. Geza Bruckner	Phone:	80859	Email:	gbruckn@uky.edu

2. General Education Curriculum for this Program:

The new General Education curriculum is comprised of the equivalent of 30 credit hours of course work. There are, however, some courses that exceed 3 credits & this would result in more than 30 credits in some majors.

- There is no foreign language requirement for the new Gen Ed curriculum.
- There is no General Education Electives requirement.

Please list the courses/credit hours currently used to fulfill the University Studies/General Education curriculum:

Please identify below the suggested courses/credit hours to fulfill the General Education curriculum.

General Education Area		Course	Credit Hrs
I. Intellectual Inquiry (one course in each area)			
Arts and Creativity		*Any*	*3*
Humanities		*Any*	*3*
Social Sciences		*PSY 100*	*4*
Natural/Physical/Mathematical		*ANT 230*	*3*
II. Composition and Communication			
Composition and Communication I		CIS 110	3
Composition and Communication II		CIS 111	3
III. Quantitative Reasoning (one course in each area)			

[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] Program changes are typically made effective for the semester following approval. No program will be made effective until all approvals are received.

	Quantitative Foundations[3]		*MA 123*	*4*
	Statistical Inferential Reasoning		*STA 296*	*3*
	Community, Culture and Citizenship in the USA		*SOC 235 or GRN 250*	*3*
	Global Dynamics		*GEO 261 or ANT 160*	3

3. Explain whether the proposed changes to the program (as described in sections 4 to 12) involve courses offered by another department/program. Routing Signature Log must include approval by faculty of additional department(s).

The proposed changes include courses offered by other departments around the University. CIS 300 has already been approved by the Dean of CI (see attachment from Jeff Huber).

4. Explain how satisfaction of the University Graduation Writing Requirement will be changed.

Current		*Proposed*	
Standard University course offering. List:		*Standard University course offering.* *List:*	
Specific course – list:	CLM 595	*Specific course) – list:*	*CLM 595*

5. List any changes to college-level requirements that must be satisfied.

Current		*Proposed-* ***Please see PROGRAM TABLE 1***	
Standard college requirement. List:		*Standard college requirement.* *List:*	
Specific required course – list:		*Specific course – list:*	

6. List pre-major or pre-professional course requirements that will change, including credit hours.

Current	*Proposed*
Associates degree entry OR the following courses: CIS 110 & CIS 111 (6), PSY 100 (4), CLA 131 (3), HHS 101 (1), and HHS 102 (1), ENG 205 (3)	Associates degree entry OR the following courses: CIS 110 & CIS 111 (6), PSY 100 (4), CLA 131 (3), HHS 101 (1), and HHS 102 (1), CIS 300 (3) *ENG 205 will be changed to CIS 300 for all tracks A, B, and C.* *New Track C (Health Services Executive) will have the same entry options as the other CLM Tracks.*

7. List the major's course requirements that will change, including credit hours.

Current	*Proposed*
	*Please see **PROGRAM TABLE 1.** The proposed changes will affect Track A, Track B, and be part of the new Track C. New courses have been added and credit hours have been adjusted.*

8. Does the pgm require a minor AND does the proposed change affect the required minor? ☐ N/A ☐ Yes ☒ No

[3] Note that MA 109 is NOT approved as a Quantitative Foundations course. Students in a major requiring calculus will use a calculus course (MA 113, 123, 137 or 138) while students not requiring calculus should take MA 111, PHI 120 or another approved course.

If "Yes," indicate current courses and proposed changes below.

Current	*Proposed*

9. Does the proposed change affect any option(s)? ☐ N/A ☒ Yes ☐ No

If "Yes," indicate current courses and proposed changes below, including credit hours, and also specialties and subspecialties, if any.

Current*	*Proposed*
Please note and review the specific attachments/tables related	
Please see **CLM Track A-TABLE 1** and **CLM Track B- TABLE 1** for current Track layouts, including credit hours Also: The CLM Track B Practicum totals 15.0 hours.	*Please see **PROGRAM TABLE 1** for proposed changes to the CLM Track A and Track B options. Please also see **PROGRAM TABLE 1** for information regarding the new CLM track being proposed.* *Also:* *The CLM Track B and new Track C Practicum will be reduced from 15 to 9.0 credit hours.*

10. Does the change affect pgm requirements for number of credit hrs outside the major subject in a related field? ☐ Yes ☒ No

If so, indicate current courses and proposed changes below.

Current	*Proposed*
_____	_____

11. Does the change affect pgm requirements for technical or professional support electives? ☐ Yes ☒ No

If so, indicate current courses and proposed changes below.

Current	*Proposed*
_____	_____

12. Does the change affect a minimum number of free credit hours or support electives? ☒ Yes ☐ No

If "Yes," indicate current courses and proposed changes below.

Current	*Proposed*
Please see **CLM Track A-TABLE 1** and **CLM Track B- TABLE 1** for current Track layouts, including credit hours	*CLM Track A will have 42 required credit hours (including 64.0 for associate's entry), no practicum requirement, and 14 free credit hrs/support electives**.* *CLM Track B will have 56 required credit hours (includes UK Core of 32.0), 9 credit hours of Practicum experience, and 32 free credit hrs/support electives*** *CLM HSE Track will have 67 required credit hours (includes UK core 32.0), 9 Practicum hours , and 21 free credit hrs/support electives *** *** To be chosen with Advisor* *Practicum- Students entering/transferring into the CLM with an associate's degree and suggested 1 year of healthcare experience will not be required to take the Practicum. Students entering/transferring to CLM with no associates degree but 2 years healthcare related experience will need to complete 3.0 credit hours of Practicum. Students entering with 1 year experience will be required to take 6 hours of Practicum. All traditional track students will complete the full 9.0 Practicum hours. Students will work with their advisor to determine the correct scheduling.* *Please refer to* ***PROGRAM TABLE 1***

13. Summary of changes in required credit hours: ***Please refer to PROGRAM TABLE 2***

		Current	*Proposed*
a. Credit Hours of Premajor or Preprofessional Courses:			
b. Credit Hours of Major's Requirements:			
c. Credit Hours for Required Minor:			
d. Credit Hours Needed for a Specific Option:			
e. Credit Hours Outside of Major Subject in Related Field:			
f. Credit Hours in Technical or Professional Support Electives:		_____	_____
g. Minimum Credit Hours of Free/Supportive Electives:		_____	_____
h. Total Credit Hours Required by Level:	100:	_____	_____
	200:	_____	_____
	300:	_____	_____
	400-500:	_____	_____
i. Total Credit Hours Required for Graduation:		_____	_____

14. Rationale for Change(s) – if rationale involves accreditation requirements, please include specific references to that.

Please see Rationale of Current and Proposed Changes.

15. List below the typical semester by semester program for the major. If multiple options are available, attach a separate sheet for each option. *Please see* ***CLM Track A-TABLE 1*** *and* ***2***, ***CLM Track B-TABLE 1*** *and* ***2***, ***CLM Track C- TABLE 1,*** *also see* ***APPLICATION-1***

YEAR 1 – FALL: **(e.g. "BIO 103; 3 credits")**		**YEAR 1 – SPRING:**	
YEAR 2 - FALL :		**YEAR 2 – SPRING:**	
YEAR 3 - FALL:		**YEAR 3 - SPRING:**	
YEAR 4 - FALL:		**YEAR 4 - SPRING:**	

CHANGE UNDERGRADUATE PROGRAM FORM

Signature Routing Log

neral Information:

Current Degree Title and Major Name: Bachelor of Health Sciences in Clinical Leadership and Management

Proposal Contact Person Name: Dr. Geza Bruckner Phone: 8-0859 Email: gbruckn@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
[illegible]	3/17/15 Chair	Phyllis Nash 18-0496 pnash@uky.edu	[signature]
Academic Affairs	6-10-15	Travis Thomas / 8-0863/ dth225@uky.edu	[signature]
CHS Dean's Office	6-23-15	Sharon Stewart /8-0570/ srstew0@uky.edu	[signature]
		/ /	
		/ /	

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision[4]
Undergraduate Council	4/12/16	Joanie Ett-Mims	
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

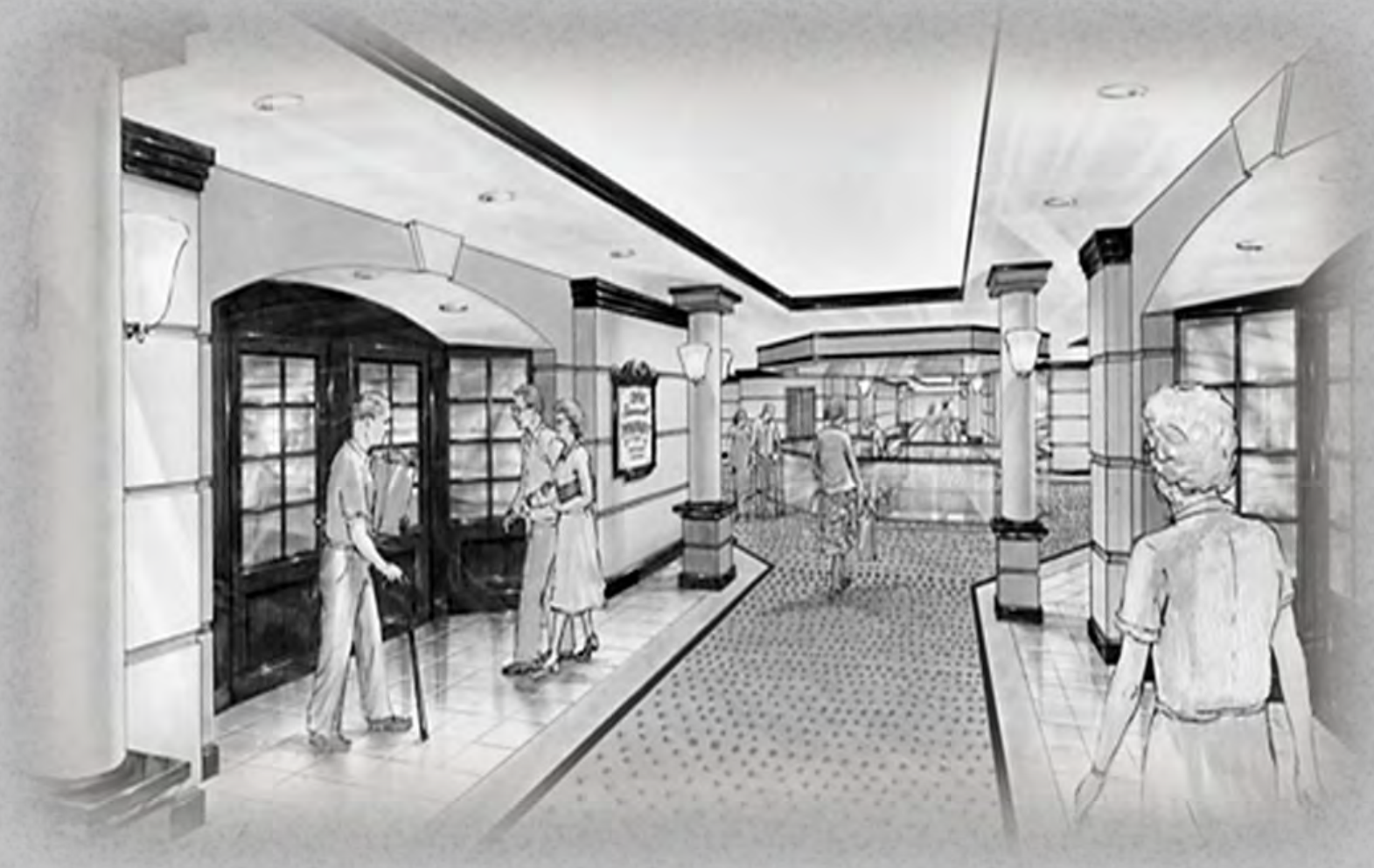
Comments:

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

Clinical Leadership & Management

CLM

Long-Term Care Track



Division of HSER
Dept. of Clinical Sciences
College of Health Sciences

Proposed Program Change for

Bachelor of Health Sciences Degree in Clinical Leadership and Management (CLM)

Following the recent approved CLM program changes in the fall of 2014, we have noted additional changes needed as we began the implementation of Track B. Therefore, the Division of Health Sciences Education and Research, Department of Clinical Sciences, College of Health Sciences, program in CLM is submitting a proposal for a program revision/change in the Clinical Leadership and Management program to adjust program course work. Also in addition to our current Track A and B options, *we propose to establish a third Track, Track C. The title for that CLM Track will be "Health Services Executive," (HSE) and will focus on Long-Term Care Administration.* The new Track C will also require 4 additional new courses that will cover material needed to be successful as a Long-Term Care Administrator. Please see attached Rationale as well as all attached documents.

There are currently 4,130 jobs for healthcare managers in Kentucky and this is projected to grow by 20% to about 4,970 jobs by 2016. This is better than the national trend for healthcare managers, which sees this job pool growing by about 16.0% over the next eight years. In general, healthcare managers plan, direct, or coordinate medicine and health services in hospitals, clinics, managed care organizations, public health agencies, nursing and long term care facilities or similar organizations.

By 2050, 20 percent of the total U.S. population will be 65 years of age or older, up from 12 percent in 2000, according to a 2013 study released by the Congressional Budget Office. As people continue to live longer, the need for long-term care and assisted living facilities also faces rapid growth. The CLM degree with a HSE Track is designed to prepare professionals to successfully manage long term care facilities and provide assistance with the extended care needs of our aging population.
Source: Long-Term Care Administration - Clarkson College. (n.d.). Retrieved February 13, 2015, from http://www.clarksoncollege.edu/health-care-business/degree-options/long-term-care-administration/

Students who graduate from the Clinical Leadership and Management Program are marketable in management positions of healthcare enterprises, able to assume greater responsibilities at their current jobs, more qualified for job promotions within their facility and may continue their studies at a graduate level. The CLM program provides more educated allied health care professionals for Kentucky communities (and beyond) and their patients, in turn, will be better served.

The CLM program addresses the interest and needs expressed by both health care providers and prospective health care students in Kentucky. The CLM program is relevant, viable, and responsive to today's changing health care environment and workforce. Implementation of Track C (*HSE Track option) will help meet the need for the projected growing job market not only for clinical leadership and management positions but also specifically for long term care management*. No new resources are required at this time to implement the additional track. Student advising services are in place to handle the anticipated 15 – 20 students in this track as well as faculty and staff for the added Practicum placements. Resources for offering the additional courses are also available from division, department and college revenue sources for the needed part time faculty. If the student enrollment exceeds 20 students in Track C then faculty and staff will be added using the new fiscal model based on dollars generated from tuition via increased student numbers and credit hours. Admission criteria will be the same as for CLM Track A&B students with the currently requested changes (see below).

The next pages contain information about our current CLM Tracks as well as any proposed changes, including the new Track C.

CLM Track A

CLM Track A

Current: The current program Track A is geared toward students possessing an associate health care related degree who have a minimum of one year's post-degree work experience in a health care setting and who are interested in enrolling in a baccalaureate degree program focusing on clinical leadership and management. While these health care professionals have sufficient training in their individual health disciples, most are without formal, academic education and training in clinical leadership and management. These students generally are admitted to the program with *transfer credits totaling up to 67 credits and meeting UK Core Course Requirements*. The current CLM core curriculum for Track A is 39 credits and offered to both full-time and part-time students. Students need to complete all UK Core requirements, 39 program credits, which when added to the associates degree or transfer credits of ~64, the total required for a Bachelor of Health Science in Clinical Leadership and Management from the University of Kentucky is 120.. Please see the current track layout for CLM-A below:

Premajor Requirements

WRD 205 Writing and Rhetoric (Subtitle required) or equivalent graduation composition and communication requirement course 3

Fully Certified Associate Degree in a Health Care discipline and minimum 1 year work experience
OR
Block Certified Associate Degree in a Health Care discipline, minimum of 1 year work experience

Completion of missing UK Core Requirements

Core Curriculum	Hours
CLM 241 Health and Medical Care Delivery Systems	3
CLM 350 Health Policy and Politics	3
CLM 405 Epidemiology and Biostatistics	3
CLM 351 Health Services Administration	3
CLM 354 Health Law	3
CLM 355 Financial Management of Health Care Institutions	3
CLM 452 Community and Institutional Planning for Health Services Delivery	3
CLM 444 Leadership and Human Resource Management	3
CLM 445 Quality and Productivity Improvement and Evaluation	3
CLM 353 Ethics in Healthcare	2
*HSE 595 Directed Studies	4
Upper-Division Electives (from selective list below)	6
Free Electives	14

**Capstone Project*

Selective Course Options

Select 6 hours from the following:

HHS 443 Health Information Management	3
HHS 453 Cultural Competence in Healthcare	3
COM 471 Introduction to Health Communication	3
COM 571 Interpersonal Communication in Health Contexts	3
CNU 502 Obesity C2C: Cell to Community (Subtitle required)	2
COM 311 Taking Control of Your Health: Patient-Provider Communication	3
COM 315 Understanding Workplace Communication in a Diverse U.S. Society	3
CNU 500 Integrative Care for Health Sciences	1-3
HHS 362 Interdisciplinary Health Advocacy	1
HHS 356 Seminar in Interprofessional Healthcare	3
CNU 503 Nutrition for the Health Professions: Medical Nutrition Therapy	2
HHS 454 Research in Human Health Sciences	3
Major hours	**39**

Source: www.mc.uky.edu/clm/

Proposed: *Please note: Students in Track A will still enter the program with ~64 credits.* There are **six requested changes** to Track A: **1)** Drop WRD 205 (3) and substitute CIS 300 Strategic Business and Professional Communications (3) as a required course, **2)** Require CLM/HHS 370 Electronic Health Records (*new course*) (3), **3)** Require HHS 454 Research in Human Health Sciences (3), **4)** add CLM 495 Introduction to Capstone (1) (new course), **5**) Students will have to maintain an overall GPA of 3.0 in the CLM Core Course's and an overall GPA of 2.8 in all courses. If during any semester the student drops below the GPAs designated above, the student will be placed on probation for one semester and if the GPA remains below 3.0 for the CLM Core Courses or less than an overall GPA of 2.8 the student will be suspended from the program (See Fig 1), **6)** Increase HHS 353, Ethics in Healthcare from 2 to 3 credits. Please see below:

Premajor Requirements
Associates Degree plus 1 year work experience OR two years' work experience in a Healthcare Related field

Additional Prerequisites

CIS 300- Strategic Business and Professional Communications	3

Core Curriculum	**Hours**
CLM 241- Health and Medical Care Delivery Systems	3
CLM 350- Health Policy and Politics	3
CLM 351- Health Services Administration	3
CLM 405- Epidemiology and Biostatistics	3
CLM 354- Health Law	3
CLM 355- Financial management of Healthcare Institutions	3
CLM 452- Community and Institutional Planning for Health Srvs Delivery	3
CLM 444- Leadership and HR Management	3
CLM 445- Quality and Productivity Improvement and Eval	3
CLM 353- Ethics in Healthcare	3*
CLM 370**- Electronic Health Records	2
HHS 454- Research in Human Health Sciences	3
CLM 495**- Introduction to the Capstone	1
CLM/HSE 595- Capstone Project	1-3
Free Elective Credits	**14**
Total Major Hours Required	**42**
TOTAL	**120**

***new course*
**course credit change*

CLM Track A Example student schedule:

CLM Track A Course Layout-*after* ***proposed*** *changes*

1st Year			2nd Year				3rd Year				4th Year			
Fall	Spring		Fall		Spring		Fall		Spring		Fall		Spring	
Blocked to complete missing UK requirements	CIS 300	3.0	CLM 241	3.0	CLM 354	3.0	CLM 405	3.0	CLM 452	3.0	CLM 495	1.0	CLM 595	3.0
	CLM 370	2.0	CLM 350	3.0	CLM 355	3.0	CLM 444	3.0	CLM 353	3.0	HHS 454	3.0	free/selective	
			free/selective		CLM 351	3.0	CLM 445	3.0	free/selective		free/selective		free/selective	

(Associates Degree 64.0)+ (42.0 Major Required Courses) + (14.0 Free Electives) = 120.0

Rationale:

1. *Request dropping WRD 205 Intermediate Composition (3) and adding CIS 300 Strategic Business and Professional Communication (3). WRD 205 is not taught with any regular frequency and makes it impossible to schedule students for this course to successfully matriculate through the program. CIS 300 is a more appropriate course for meeting student needs as it is an applied communications course focused on both writing and communication skills and offered with regularity. We have assurance from the College of Communication and Information that the course will be available for our CLM students (see attached email from Jeff Huber).*
2. *Require CLM 370 (2) Electronic Health Records (EHR) as a core course for all CLM tracks. This course was piloted during the spring of 2014 as an online course and was well received. The course is aimed at providing baseline knowledge about EHRs which has been lacking in our curriculum. Topics include Meaningful Use, EHR Adoption, Quality of Care (Course has been submitted through eCats).*
3. *Require HHS 454 Research in Human Health Sciences (3). CLM students need to develop a better understanding of research methods, design and interpretation of data to function effectively in management positions as well as help them prepare for their capstone project. Learning how to interpret data and to apply the findings are important to quality improvement and management of healthcare workflow. Evidenced based decision making is critical in the new healthcare environment and students need to have the knowledge and skills to understand how appropriate data is collected, how studies are designed, statistical analysis of data and the correct interpretation of the data. Therefore the undergraduate course "Research in Human Health Sciences" will provide this foundation for all CLM students. This course will also replace 3 credits of the previously required practicum credit hours(also see below under Track B)*
4. *Reduce our current 4 credit CLM 595 Capstone course to 3 credits and develop a 1 credit new course as CLM 495 Introduction to Capstone. We have been handling our current CLM 595, 4 credit hour course as a 1cr and 3 credit course and would like to formalize this to avoid confusion and make it clear that the new 1 credit 495 course will be a prerequisite for the 3 credit 595 course.*
5. *Students will have to maintain an overall GPA of 3.0 in the CLM Core Course's and an overall GPA of 2.8 in all courses. If during any semester the student drops below the GPAs designated above, the student will be placed on probation for one semester and if the GPA remains below 3.0 for the CLM Core Courses or less than an overall GPA of 2.8 the student will be suspended from the program (See Fig 1).*
6. *Increase HHS 353, Ethics in Healthcare from 2 to 3 credits because the material needing to be covered has expanded and 2 credit hours has not been adequate.*

These changes would increase the total Major required credit hours from 39 to 42 credits but maintain the overall 120 credit hour total required for graduation.

CLM Track B

CLM Track B

Current: Track B follows closely the Track A core plus UK Core Course requirements; further Track B requires additional practicum learning experiences to compensate for the knowledge/experience that Track A students have attained. Please see below:

Track B – Entry Level Track

UK Core Requirements

See the *UK Core* section of the *2014-2015 Undergraduate Bulletin* for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list 3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list 3

III. Intellectual Inquiry in the Social Sciences
PSY 100 Introduction to Psychology 4

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
ANT 230 Introduction to Biological Anthropology 3

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I 3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II 3

VII. Quantitative Foundations
MA 123 Elementary Calculus and Its Applications 4

VIII. Statistical Inferential Reasoning
Choose one course from approved list 3

IX. Community, Culture and Citizenship in the USA
GRN 250 Aging in Today's World 3

X. Global Dynamics
ANT 160 Cultural Diversity in the Modern World
or
GEO 161 Global Inequalities 3

UK Core hours 32

Graduation Composition and Communication Requirement (GCCR)
CLM 595 Directed Studies 1-3

Graduation Composition and Communication Requirement hours (GCCR) 1-3

Premajor Requirements	Hours
CIS/WRD 110 Composition and Communication I	3
CIS/WRD 111 Composition and Communication II	3
CLA 131 Medical Terminology from Greek and Latin	3
CLM 241 Health and Medical Care Delivery Systems	3
HHS 101 Survey of Health Professions I	1
HHS 102 Survey of Health Professions II: Shadowing Experience	1
PSY 100 Introduction to Psychology	4
WRD 205 Writing and Rhetoric (Subtitle required)	3

Premajor hours 21

Major Requirements	Hours
CLM 350 Health Policy and Politics	3
CLM 405 Epidemiology and Biostatistics	3
CLM 351 Health Services Administration	3
CLM 354 Health Law	3
CLM 355 Financial Management of Health Care Institutions	3
CLM 452 Community and Institutional Planning for Health Services Delivery	3
CLM 444 Leadership and Human Resource Management	3
CLM 445 Quality and Productivity Improvement and Evaluation	3
CLM 353 Ethics in Healthcare	2
*HSE 595 Directed Studies	4
CLM 501 Practicum in Clinical Leadership and Management	15
Upper-Division Electives (from selective list below)	12
Free Electives	20

**Capstone Project*

Major hours 57

Source: www.mc.uky.edu/clm/

Proposed: There are **seven requested changes** to Track B in the program change proposal : **1)** Drop WRD 205 (3) and substitute CIS 300 Strategic Business and Professional Communications (3), **2)** Require CLM/HHS 370 (3) Electronic Health Records (*new course*), **3)** Require HHS 454 Research in Human Health Sciences (3), **4)** add CLM 495 Introduction to Capstone (1) (*new course*), **5)** Reduce the CLM 501 Practicum requirement from 15 to 9 credit hours and allow students with work related healthcare experiences to take reduced practicum hours, **6)** Students will have to maintain an overall GPA of 3.0 in the CLM Core Course's and an overall GPA of 2.8 in all courses. If during any semester the student drops below the GPAs designated above, the student will be placed on probation for one semester and if the GPA remains below 3.0 for the CLM Core Courses or less than an overall GPA of 2.8 the student will be suspended from the program (See Fig 1), **7)** Increase HHS 353, Ethics in Healthcare from 2 to 3 credits. Please see below:

UK Core Requirements	**32**
Additional Prerequisites	
CIS 300- Strategic Business and Professional Communications	3
CLA 131- Medical Terminology	3
HHS 101- Survey of Health Professionals	1
HHS 102- Survey of Health Professionals II	1
Core Curriculum	**Hours**
CLM 241- Health and Medical Care Delivery Systems	3
CLM 350- Health Policy and Politics	3
CLM 351- Health Services Administration	3
CLM 405- Epidemiology and Biostatistics	3
CLM 354- Health Law	3
CLM 355- Financial management of Healthcare Institutions	3
CLM 452- Community and Institutional Planning for Health Srvs Delivery	3
CLM 444- Leadership and HR Management	3
CLM 445- Quality and Productivity Improvement and Eval	3
CLM 353- Ethics in Healthcare	3*
CLM 370**- Electronic Health Records	2
HHS 454- Research in Human Health Sciences	3
CLM 495**- Introduction to the Capstone	1
CLM 595- Capstone Project	1-3
CLM 501- Practicum	9*
Free Elective Credits	**32**
Total Major Hours Required	**56**
TOTAL	**120**
***new course*	
**course credit change*	

CLM Track B Example student schedule:

CLM Track B Course Layout-*after* ***proposed*** *changes*

1st Year				2nd Year				3rd Year				4th Year			
Fall		Spring		Fall		Spring		Fall		Spring		Fall		Spring	
HHS 101	1.0	HHS 102	1.0	HHS 241	3.0	HHS 351	3.0	CLM 405	3.0	CLM 452	3.0	CLM 495	1.0	CLM 595	3.0
A/C UK core		CLA 131		HHS 350	3.0	CLM 354	3.0	CLM 444	3.0	CLM 353	3.0	CLM 501	3.0	CLM 501	3.0
CIS/WRD 110		CIS/WRD 111		free/elective		CLM 355	3.0	CLM 445	3.0	CLM 501 3.0	3.0	HHS 454	3.0	free/elective	
MA 123		CIS 300		ANT 230 (UK)		CLM 370	2.0	free/elective		free/elective		free/elective		free/elective	
PSY 100		Hum UK core		STA UK core		free/elective		free/elective		free/elective		free/elective			
												free/elective			

(56.0 Major Required Courses) + (32.0 Free Electives) + (UK Core 32.0)= 120.0

Rationale:
Track B freshman entry students will take 32 credits of UK Core required courses, 8 credits prerequisite courses, 32 Elective Credits (12 will be selected from the Program Selectives), 56 Total Major Courses Credits (including 9 credits of practicum if they have no prior on the job healthcare experience and variable credits of practicum based on previous healthcare experiences, e.g. 3 practicum credits out of 9 needed with 1 year experience and 0 credits practicum out of 9 credits needed with 2 years' healthcare experience) for a total of 120 credits to earn a Bachelor of Health Science in Clinical Leadership and Management from the University of Kentucky.

1. *Changes requested for Track B include the same requests and rationale as listed above for Track A (1 to 6)*
2. *The 15 credit hour CLM 501 Practicum, currently approved for Track B, is more than the needed practicum experiences and limits the flexibility for other essential courses. Therefore, we request lowering the total practicum hours for CLM 501 from 15 credit hours to 9 credit hours. The reduction in credit hours also allows us to add two new essential CLM required core courses: 1) CLM/HHS 370 (3) Electronic Health Records (new course) and 2) HHS 454 Research in Human Health Sciences (3). Both of these courses will embellish the practicum experiences and prepare them for their capstone projects (4) Entering students with on the job healthcare experience could reduce the number of practicum hours required dependent on the years of experience, e.g. 3 practicum credits out of 9 needed with 1 year experience and 0 credits practicum out of 9 credits needed with 2 years' healthcare experience. This would give student with healthcare experience the flexibility to embellish their curriculum with more elective hours of course work.*

CLM Track C

NEW CLM Track C (Health Services Executive)

HSE is a newly recognized title for specialized training in long term care management. Track C (HSE) in CLM will follow closely the CLM core and UK Core Course requirements listed for Track B but will include 4 additional courses to be taken: 1) GRN 250 Aging in Today's World (3), 2) CLM 380 Healthcare Facility Administration (3) (new course), 3) CLM 470 Long Term Care Management (3) (new course) and 4) CLM 570 Managing Health Issues in Long-term Care: Team Approach (2) (new course); the required service experiences for Track C (HSE) will be met via specialized long term/healthcare facility practicum (CLM 501 Practicum – 9 credits to meet National Association of Long Term Care Administrator Boards (NAB) requirements). The HSE track will enable students to meet the requirements for HSE and long term care accreditation, as well as allow students to sit for the licensure exam; accreditation for Health Services Executive will be sought once Track C (HSE) is approved. Please see required courses below:

UK Core Requirements	**32**
Additional Prerequisites	
CIS 300- Strategic Business and Professional Communications	3
CLA 131- Medical Terminology	3
HHS 101- Survey of Health Professionals	1
HHS 102- Survey of Health Professionals II	1
Core Curriculum	**Hours**
CLM 241- Health and Medical Care Delivery Systems	3
CLM 350- Health Policy and Politics	3
CLM 351- Health Services Administration	3
CLM 405- Epidemiology and Biostatistics	3
CLM 354- Health Law	3
CLM 355- Financial Management of Healthcare Institutions	3
CLM 452- Community and Institutional Planning for Health Srvs Delivery	3
CLM 444- Leadership and HR Management	3
CLM 445- Quality and Productivity Improvement and Eval	3
CLM 353- Ethics in Healthcare	3*
CLM 370**- Electronic Health Records	2
HHS 454- Research in Human Health Sciences	3
CLM 495**- Introduction to the Capstone	1
CLM 595- Capstone Project	3
CLM 501- Practicum	9
Additional Required	
GRN 250- Aging in Today's World	3
CLM 380**- Long Term Care Administration	3
CLM 470**- Long Term Care Management	3
CLM 570**- Managing Health Issues in Long Term Care: Team Approach	2
Free Elective Credits	**21**
Total Major Hours Required	**67**
TOTAL	**120**

***new course*
**course credit change*

CLM Track C Example student schedule:

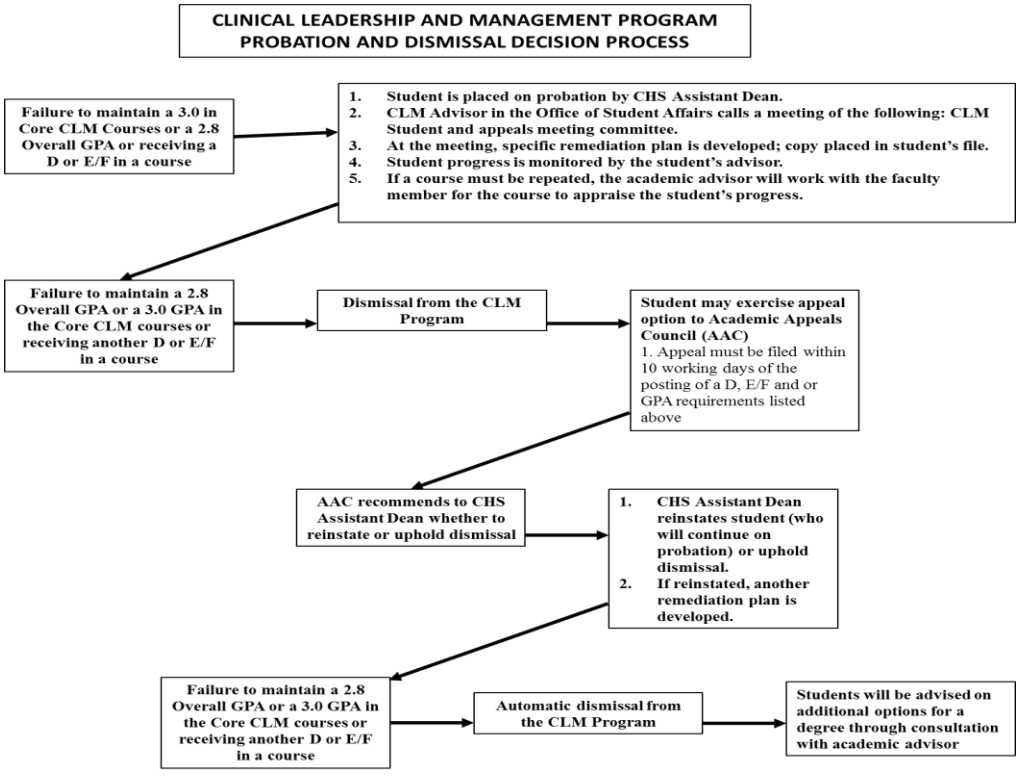
1st Year				2nd Year				3rd Year				4th Year			
Fall		Spring		Fall		Spring		Fall		Spring		Fall		Spring	
HHS 101	1.0	HHS 102	1.0	HHS 241	3.0	HHS 351	3.0	CLM 405	3.0	CLM 452	3.0	CLM 495	1.0	CLM 595	3.0
A/C UK core		CLA 131		HHS 350	3.0	CLM 354	3.0	CLM 444	3.0	CLM 353	3.0	CLM 501	3.0	CLM 501	3.0
CIS/WRD 110		CIS/WRD 111		GRN 250	3.0	CLM 355	3.0	CLM 445	3.0	CLM 501	3.0	HHS 454	3.0	HSE 570	2.0
MA 123		CIS 300		ANT 230 (UK)		CLM 370	2.0	free/selective		HSE 380	3.0	HSE 470		free/selective	
PSY 100		Hum UK core		STA UK core		free/selective		free/selective		free/selective		free/selective		free/selective	

(67.0 Major Required Courses) + (21.0 Free Electives) + (UK Core 32.0)= 120.0

Rationale:
Track C will enable students to meet the requirements for HSE and long term care accreditation, as well as allow students to sit for the licensure exam; accreditation will be sought once Track C is approved. The following added courses along with the current and requested curricular changes will meet the National Association of Long Term Care Administrator Boards (NAB) Academic Accreditation Workbook requirements - http://www.nabweb.org/filebin/pdf/PO-VI.1_AccreditationWorkbook_111814.pdf .

1. *Changes requested for Track A&B are also to be included in the new Track C (HSE) (Track A, changes 1 to 6 and Track B, change 2 – see above)*
2. *The HSE track in addition to the required courses listed for Track B will require the additional following courses which are in the selective list for Track A&B: 1) GRN 250, Aging in Today's World (3), 2) CLM 380, Healthcare Facility Administration (3) (new course), 3) CLM 470, Long Term Care Management (3) (new course) and 4) CLM 570 Managing Health Issues in Long-term Care: Team Approach (2) (new course).*

Figure 1



MEMO

June 10th, 2015

TO: Sharon R. Stewart, Professor and Associate Dean of Academic Affairs
FROM: Travis Thomas – Chair of Academic Affairs
RE: Academic Affairs review of HHS CLM proposal

Dear Dr. Stewart,

The Academic Affairs (AA) Committee has reviewed the proposed changes to the HHS CLM program submitted by Dr. Bruckner. Upon initial review, the AA Committee recommended additional changes that were all successfully addressed by Dr. Bruckner to improve the clarity of the proposal. The Academic Affairs committee recommends approval of the attached requested program change.

Thanks for the opportunity to review this proposal. Please let me know if I can help clarify anything regarding this approval request.

Sincerely,

Travis Thomas, PhD, RD, CSSD, *Chair – CHS Academic Affairs Committee (2014-15)*

OVERVIEW

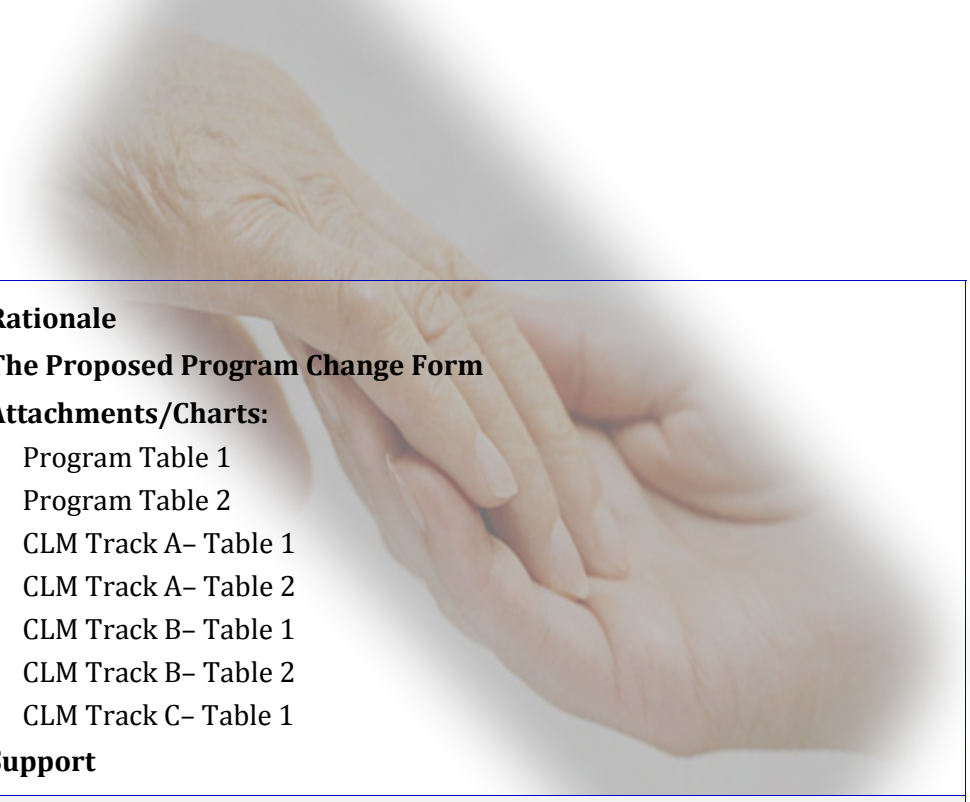
Division of Health Sciences, Education, and Research
Department of Clinical Sciences
College of Health Sciences

The documents contained in this binder provide support and justification regarding any changes to the Clinical Leadership and Management Program here at the University of Kentucky.

Main Objectives:

- To provide an explanation of current CLM Tracks and any changes regarding courses and/or credit hours
- To provide a description and planning guide for the proposed CLM Track C (Health Services Executive)
- To provide all required documents for the stated program changes

BINDER INDEX



I	**Program Change Request**	• **Rationale**
		• **The Proposed Program Change Form**
		• **Attachments/Charts:**
		  • Program Table 1
		  • Program Table 2
		  • CLM Track A– Table 1
		  • CLM Track A– Table 2
		  • CLM Track B– Table 1
		  • CLM Track B– Table 2
		  • CLM Track C– Table 1
		• **Support**

II	**New Course Proposals**	• **New Course Proposals**
		  • CIS 300- Course Description
		  • CLM 370– Electronic Medical Records
		  Example Syllabus CLM 370
		  • CLM 380– Long-Term Care Administration
		  Example Syllabus CLM 380
		  • CLM 470– Long-Term Care Management
		  Example Syllabus CLM 470
		  • CLM 495– Intro to the Capstone
		  Example Syllabus CLM 495
		  • CLM 570– Managing Health Issues in Long-Term Care: Team Approach
		  Example Syllabus CLM 570

III	**Course Changes**	• **Course Changes**
		  • ~~CLM 351– Health Services Admin and Systems Thinking,~~
		  ~~Updated Syllabus CLM 351~~
		  • CLM 353- Ethics in Healthcare
		  Updated Syllabus CLM 353
		  • CLM 405– Epidemiology and Biostatistics
		  • CLM 444– Leadership and HR Mgmt.
		  • CLM 445– Quality and Productivity
		  • CLM 452– Comm/Instit Planning for Health Services
		  • CLM 595– Directed Studies Capstone

IV	**Accreditation**	• **Accreditation Criteria Information (NAB)**

PROGRAM TABLE 1

Associate Degree Entry Into the Program		Freshman Entry into the Program		NEW-Freshman Entry into the Program	
(TRACK A)		(TRACK B)-* *CLM Prerequisites serving as Core*		(TRACK C- HSE)	
Course	Credits	*Course*	Credits	*Course*	Credits
		UK Core Requirements		**UK Core Requirements**	
		Arts and Creativity (any)	3	Arts and Creativity (any)	3
		Humanities (any)	3	Humanities (any)	3
		Social Sciences- PSY 100*	4	Social Sciences- PSY 100*	4
		ANT 230- Natural/Physical/Mathematical-	3	ANT 230- Natural/Physical/Mathematical-	3
ASSOCIATES DEGREE AND 1- 2 YEARS WORK EXPERIENCE IN A HEALTHCARE RELATED FIELD		CIS/WRD 110- Composition and Communication*	3	CIS/WRD 110- Composition and Communication*	3
		CIS/WRD 111- Composition and Communication*	3	CIS/WRD 111- Composition and Communication*	3
		Quantitative Foundations- MA 123	4	Quantitative Foundations- MA 123	4
		Statistical Inferential Reasoning (any)	3	Statistical Inferential Reasoning (any)	3
		Community, Culture, and Citizenship in the USA- SOC 235	3	Community, Culture, and Citizenship in the USA- GRN 250	3
		Global Dynamics- ANT 160 or GEO 161	3	Global Dynamics- ANT 160 or GEO 161	3
		TOTAL UK CORE	**32**	**TOTAL UK CORE**	**32**
		Additional Prerequisite Courses Required for CLM Track B and HSE Track			
		CLA 131 Medical Terminology	3	CLA 131 Medical Terminology	3
♦♦CIS 300- Strategic Business and Professional Communications	3	♦♦CIS 300- Strategic Business and Professional Communications	3	♦♦CIS 300- Strategic Business and Professional Communications	3
		HHS 101-Survey of Health Professionals	1	HHS 101-Survey of Health Professionals	1
		HHS 102- Shadowing Experience	1	HHS 102- Shadowing Experience	1
CLM Major Courses					
CLM 241- Health and Medical Care Delivery Systems	3	CLM 241- Health and Medical Care Delivery Systems	3	CLM 241- Health and Medical Care Delivery Systems	3
CLM 350- Health Policy and Politics	3	CLM 350- Health Policy and Politics	3	CLM 350- Health Policy and Politics	3
CLM 351-Health Services Administration	3	CLM 351-Health Services Administration	3	CLM 351-Health Services Administration	3
CLM 353- Ethics in Healthcare	♦ 3	CLM 353- Ethics in Healthcare	♦ 3	CLM 353- Ethics in Healthcare	♦ 3
CLM 354- Health Law	3	CLM 354- Health Law	3	CLM 354- Health Law	3
CLM 355- Financial Management of Healthcare Institutions	3	CLM 355- Financial Management of Healthcare Institutions	3	CLM 355- Financial Management of Healthcare Institutions	3
♦♦CLM 370- Electronic Health Records	2	♦♦CLM 370- Electronic Health Records	2	♦♦CLM 370- Electronic Health Records	2
CLM 405-Epidemiology and Biostatistics	3	CLM 405-Epidemiology and Biostatistics	3	CLM 405-Epidemiology and Biostatistics	3
CLM 444- Leadership and Human Resource Management	3	CLM 444- Leadership and Human Resource Management	3	CLM 444- Leadership and Human Resource Management	3
CLM 445- Quality and Productivity Improvement and Evaluation	3	CLM 445- Quality and Productivity Improvement and Evaluation	3	CLM 445- Quality and Productivity Improvement and Evaluation	3
♦♦HHS 454- Research in Human Health Services	3	♦♦HHS 454- Research in Human Health Services	3	♦♦HHS 454- Research in Human Health Services	3
CLM 452- Community and Institutional Planning	3	CLM 452- Community and Institutional Planning	3	CLM 452- Community and Institutional Planning	3
♦♦CLM 495- Introduction to the Capstone	1	♦♦CLM 495- Introduction to the Capstone	1	♦♦CLM 495- Introduction to the Capstone	1
CLM 595- Capstone	3	CLM 595- Capstone	3	CLM 595- Capstone	3
		CLM 501- Practicum	♦ 9*	CLM 501- Practicum	♦ 9
		*2 Years Experience in Healthcare (3.0 Practicum and 38 Free Elective Credits)		**Additional Required Courses for Track**	
				♦♦ GRN 250- Aging in Todays World	3
				♦♦ HSE 380- Long-Term Care Administration	3
		*1 Year Experience in Healthcare (6.0 Practicum and 35 Free Elective Credits)		♦♦HSE 470- Long Term Care Management	3
				♦♦HSE 570 Managing Health Issues in Long-term Care: Team Approach	2
Free Elective Credits[1]	14	Free Elective Credits[2]	32	Free Elective Credits[2]	21
TOTALS					
Total Major Required Courses (Does not include 64.0 from Assoc. degree or Free electives 14.0)	42	**Total Major Required Courses (Does not include Free electives 32.0 and core 32.0)**	56	**Total Major Required Courses (Does not include Free electives 21.0 and core 32.0)**	67
Total Credits (Already have ~64.0)	120	**Total Credits**	120	**Total Credits**	120

Program Selectives/Electives**	
COM 311- Taking Control of Your Health: Patient/Provider Communication	3
COM 315- Understanding the Workplace: Communication in a Diverse US Society	3
HHS 362- Health Advocacy	1
HHS 356- Seminar in IPE	1
HSE 380- Long Term Care Administration	3
CNU 400G- Nutrition for Physical Activity, Injury Prevention and Rehabilitation	2
HHS 443- Health and Information Management	3
HHS 453- Cultural Competence in Healthcare	3
HSE 470- Long-Term Care Management	3
COM 471- Introduction to Health Communication	3
HSE 570 -Managing Health Issues in Long-term Care: Team Approach	2
CNU 502- Obesity Cell to Community	2
CNU 500- Integrative Care	1-3
COM 571- Health Communication *(Department Approval)*	3
CLM 571 Health and Physical Aspects of Aging	2
HHS 503- Nutrition for Health Professions	2
Total Selective Credits Available	33-35

***Other courses can be used as Selectives/Electives with Advisor's consent*

♦ Signifies Change/New

♦♦ Signifies Change/New

[1] at least 6.0 must be taken from the Selectives List

[2] at least 12.0 must be taken from the Selectives List

PROGRAM TABLE 2

Refer to PROGRAM TABLE 1 for detailed information

Also can Refer to CLM Literature Document for current figures

		CLM Track A- *Current* Associates Degree Entry	CLM Track A- *Proposed* Associates Degree Entry	CLM Track B *Current*	CLM Track B *Proposed*	Proposed CLM HSE Track
A. Credit Hours of Major's Requirements		39	42	57	56	67
B. Credit Hours Needed for a Specific Option:		39	42	57	56	67
C. Minimum Credit Hours of Free/Supportive Electives:		20	14	31	32	21
D. Total Credit Hours Required by Level:	100:	0	0	15	15	15
	200:	3	3	6	3	6
	300:	20	21	20	21	24
	400-500:	16	19	31	28	33
E. Total Credit Hours Required for Graduation:		120	120	120	120	120

CLM TRACK A- Example Schedules

CLM Track A- TABLE 1

CLM Track A Course Layout-*current*

1st Year			2nd Year				3rd Year				4th Year			
Fall	**Spring**		**Fall**		**Spring**		**Fall**		**Spring**		**Fall**		**Spring**	
Blocked to complete missing UK requirements			CLM 241	3.0	CLM 354	3.0	CLM 405	3.0	CLM 452	3.0	CLM 495	1.0	CLM 595	3.0
			CLM 350	3.0	CLM 355	3.0	CLM 444	3.0	CLM 353	2.0	free/selective		free/selective	
					CLM 351	3.0	CLM 445	3.0	free/selective					

CLM Track A- TABLE 1

CLM Track A Course Layout-*after* ***proposed*** *changes*

1st Year			2nd Year				3rd Year				4th Year			
Fall	**Spring**		**Fall**		**Spring**		**Fall**		**Spring**		**Fall**		**Spring**	
Blocked to complete missing UK requirements	CIS 300	3.0	CLM 241	3.0	CLM 354	3.0	CLM 405	3.0	CLM 452	3.0	CLM 495	1.0	CLM 595	3.0
	CLM 370	2.0	CLM 350	3.0	CLM 355	3.0	CLM 444	3.0	CLM 353	3.0	HHS 454	3.0	free/selective	
			free/selective		CLM 351	3.0	CLM 445	3.0	free/selective		free/selective		free/selective	

(Associates Degree 64.0)+ (42.0 Major Required Courses) + (14.0 Free Electives) = 120.0

CLM TRACK B- Example Schedules

CLM Track B- TABLE 1

CLM Track B Course Layout-*current*

1st Year				2nd Year				Summer I		3rd Year				Summer II		4th Year			
Fall		Spring		Fall		Spring				Fall		Spring				Fall		Spring	
HHS 101	**1.0**	HHS 102	**1.0**	HHS 241	**3.0**	HHS 351	**3.0**	CLM 501	5.0	CLM 405	3.0	CLM 452	3.0	CLM 501	5.0	CLM 495	1.0	CLM 595	3.0
A/C UK core		CLA 131	**3.0**	HHS 350	**3.0**	CLM 354	**3.0**			CLM 444	3.0	CLM 353	2.0			elective		CLM 501	5.0
CIS/WRD 110		CIS/WRD 111	**3.0**	selective		CLM 355	**3.0**			CLM 445	3.0	elective				elective		elective	
MA 123		ANT/GEO 161		ANT 230 (UK)		selective				elective		elective				elective		elective	
PSY 100		Hum UK core		STA UK core		selective				elective									

CLM Track B- TABLE 2

CLM Track B Course Layout-*after* ***proposed*** *changes*

1st Year				2nd Year				3rd Year				4th Year			
Fall		Spring		Fall		Spring		Fall		Spring		Fall		Spring	
HHS 101	1.0	HHS 102	1.0	HHS 241	3.0	HHS 351	3.0	CLM 405	3.0	CLM 452	3.0	CLM 495	1.0	CLM 595	3.0
A/C UK core		CLA 131		HHS 350	3.0	CLM 354	3.0	CLM 444	3.0	CLM 353	3.0	CLM 501	3.0	CLM 501	3.0
CIS/WRD 110		CIS/WRD 111		free/elective		CLM 355	3.0	CLM 445	3.0	CLM 501 3.0	3.0	HHS 454	3.0	free/elective	
MA 123		CIS 300		ANT 230 (UK)		CLM 370	2.0	free/elective		free/elective		free/elective		free/elective	
PSY 100		Hum UK core		STA UK core		free/elective		free/elective		free/elective		free/elective			
												free/elective			

(56.0 Major Required Courses) + (32.0 Free Electives) + (UK Core 32.0)= 120.0

(NEW) CLM TRACK C- Example Schedules

Health Services Executive

CLM Track C- TABLE 1

1st Year				2nd Year				3rd Year				4th Year			
Fall		**Spring**		**Fall**		**Spring**		**Fall**		**Spring**		**Fall**		**Spring**	
HHS 101	1.0	HHS 102	1.0	HHS 241	3.0	HHS 351	3.0	CLM 405	3.0	CLM 452	3.0	CLM 495	1.0	CLM 595	3.0
A/C UK core		CLA 131		HHS 350	3.0	CLM 354	3.0	CLM 444	3.0	CLM 353	3.0	CLM 501	3.0	CLM 501	3.0
CIS/WRD 110		CIS/WRD 111		GRN 250	3.0	CLM 355	3.0	CLM 445	3.0	CLM 501	3.0	HHS 454	3.0	HSE 570	2.0
MA 123		CIS 300		ANT 230 (UK)		CLM 370	2.0	free/selective		HSE 380	3.0	HSE 470		free/selective	
PSY 100		Hum UK core		STA UK core		free/selective		free/selective		free/selective		free/selective		free/selective	

(67.0 Major Required Courses) + (21.0 Free Electives) + (UK Core 32.0)= 120.0

Ett, Joanie M

From: Bruckner, Geza
Sent: Monday, February 01, 2016 1:54 PM
To: Ett, Joanie M; Stewart, Sharon R
Cc: Thomas, D. Travis; Christianson, Tabatha D
Subject: RE: Course Change submission status

Thanks. I am requesting that UGC remove the proposed course change to CLM 351 from the CLM program proposal; its removal will not affect the credit hours or basic course information. The CLM 351 course will be removed from eCats. Thanks so much for everyone's help.

Be Aware of the Moment
Geza Bruckner, Professor Clinical Nutrition
Department of Clinical Sciences
Director of Clinical Nutrition
Director Health Sciences, Education and Research
Programs: Human Health Sciences and Clinical Leadership and Management
Graduate Center for Nutritional Sciences
http://www.mc.uky.edu/healthsciences/index.html
http://www.mc.uky.edu/nutrisci/
900 S. Limestone
209A CTW Building
Lexington, KY 40536-0200
859-323-1100 ext 80859
Fax 859-257-2454

From: Ett, Joanie M
Sent: Monday, February 01, 2016 1:45 PM
To: Stewart, Sharon R
Cc: Bruckner, Geza; Thomas, D. Travis
Subject: RE: Course Change submission status

Thank you for the update! I have received CLM 370 in eCATS and will assign that, along with the program proposal and other related courses, to UGC reviewers.

As far as withdrawing the changes for CLM 351, I think a memo would be fine. The course is mentioned throughout the program proposal, but as long as the withdrawn changes don't affect the course's information as listed in the proposal (i.e. 3 credit hours, part of the Core Curriculum, etc.) then I don't think there will be any issues. You should be able to withdraw the course change request from eCATS at the college level.

Thanks,
Joanie

Joanie Ett-Mims
Undergraduate Education
University of Kentucky
230 McVey Hall
Lexington, KY 40506-0045

(859)257-9039 Phone
joanie.ett-mims@uky.edu

From: Stewart, Sharon R
Sent: Monday, February 01, 2016 11:29 AM
To: Ett, Joanie M
Cc: Bruckner, Geza; Thomas, D. Travis
Subject: Course Change submission status

Hi Joanie, I wanted to let you know that CLM 370 has now been recommended for approval by the CHS Academic Affairs Committee, and I am submitting it. We want to withdraw changes to CLM 351 which means that this needs to be reflected in the CLM BHS program change. Would it work if Dr. Bruckner simply wrote a memo noting that the change is withdrawn and submitted it to your office?

As a reminder, this is the email you sent re: the CLM BHS program change -

> **Jan 05, 2016**
> For the CLM courses, the UGC received those courses and the CLM BHS program change over the summer. I emailed Dr. Bruckner and Dr. Sharon Stewart at the beginning of the fall semester to ask about two other courses that are included in the program change (CLM 351 and CLM 370), because in eCATS, it shows that these two courses are still at the college level. The UGC requests that all courses related to a program change be reviewed at one time, so we are waiting on those before reviewing the other submissions.

Sharon

Sharon R. Stewart, EdD
Associate Dean and Professor
University of Kentucky College of Health Sciences
Charles T. Wethington, Jr. Building, Room 123
Lexington, KY 40536-0200
(859) 218-0570
srstew01@uky.edu

Ett, Joanie M

From: Bruckner, Geza
Sent: Friday, April 15, 2016 4:45 PM
To: Ett, Joanie M
Subject: Fwd: CIS 300

Sent from my iPhone

Begin forwarded message:

> **From:** "Huber, Jeffrey T" <jeffrey.huber@uky.edu>
> **Date:** April 15, 2016 at 4:17:24 PM EDT
> **To:** "Bruckner, Geza" <gbruckn@uky.edu>
> **Subject: CIS 300**
>
> Hi Geza,
>
> We should be able to offer 2 dedicated sections of CIS 300 each year for student enrolled in the Clinical Leadership and Management program provided the College of Health Sciences provides financial support for those 2 dedicated sections.
>
> Thanks,
>
> Jeff
>
> Jeffrey T. Huber, Ph.D.
> Director and Professor
> School of Information Science
> University of Kentucky
> 323 Little Library Building
> Lexington, KY 40506-0224
> (859) 257-2334
> (859) 257-4205 fax
> jeffrey.huber@uky.edu
> www.uky.edu/CIS/SLIS

From: Bruckner, Geza
To: Christianson, Tabatha D
Subject: FW: CIS 300
Date: Monday, February 23, 2015 4:45:57 PM

Be Aware of the Moment

Geza Bruckner, Professor Clinical Nutrition
Department of Clinical Sciences
Director of Clinical Nutrition
Director Health Sciences, Education and Research
Programs: Human Health Sciences and Clinical Leadership and Management
Graduate Center for Nutritional Sciences
http://www.mc.uky.edu/healthsciences/index.html
http://www.mc.uky.edu/nutrisci/
900 S. Limestone
209A CTW Building
Lexington, KY 40536-0200
859-323-1100 ext 80859
Fax 859-257-2454

From: Huber, Jeffrey T
Sent: Monday, October 06, 2014 12:26 PM
To: Bruckner, Geza
Subject: RE: CIS 300

You're welcome.

From: Bruckner, Geza
Sent: Monday, October 06, 2014 12:17 PM
To: Huber, Jeffrey T
Subject: Re: CIS 300

Great thanks

Sent from my iPhone

On Oct 6, 2014, at 11:12 AM, "Huber, Jeffrey T" <jeffrey.huber@uky.edu> wrote:

> Hi Geza,
>
> I met with Dean O'Hair earlier. We should be able to offer a couple of dedicated sections of CIS 300 for College of Health Sciences' students.
>
> Thanks,
> Jeff

From: Bruckner, Geza
Sent: Thursday, October 02, 2014 8:50 AM
To: Huber, Jeffrey T
Subject: RE: CIS 300

Hopefully we could get it approved by Fall 2015 but you know the system. We could use either semester.

Be Aware of the Moment

Geza Bruckner, Professor Clinical Nutrition
Department of Clinical Sciences
Director of Clinical Nutrition
Director Health Sciences, Education and Research
Programs: Human Health Sciences and Clinical Leadership and Management
Graduate Center for Nutritional Sciences
http://www.mc.uky.edu/healthsciences/index.html
http://www.mc.uky.edu/nutrisci/
900 S. Limestone
209A CTW Building
Lexington, KY 40536-0200
859-323-1100 ext 80859
Fax 859-257-2454

From: Huber, Jeffrey T
Sent: Thursday, October 02, 2014 8:47 AM
To: Bruckner, Geza
Subject: RE: CIS 300

Hi Geza,

Believe me, I fully understand. This is my 7th year at UK and it is by far the craziest.

When would you anticipate needing 1-2 sections of CIS 300? Beginning fall 2015? Which semester? Fall or Spring?

Thanks,
Jeff

From: Bruckner, Geza
Sent: Wednesday, October 01, 2014 3:21 PM
To: Huber, Jeffrey T
Subject: CIS 300

Jeff,
My apologies for dropping the ball on IHN the past couple of months but I am swamped and with Blackboard being a mess, it has caused a great deal of frustration. Hope to tackle it shortly. However my current email relates to our CLM program. Jamie

Warren has been helping us with a number of course and curriculum related issues and suggested that, if we drop ENG 205 as a required course in our CLM program (it is never offered), we should add CIS 300, Strategic Business and Professional Communication (3), with your permission. We expect between 25 to 50 students needing this course during their sophomore or junior year. Can you accommodate this number of students if we require the course? Hope all is going well.

Be Aware of the Moment

Geza Bruckner, Professor Clinical Nutrition
Department of Clinical Sciences
Director of Clinical Nutrition
Director Health Sciences, Education and Research
Programs: Human Health Sciences and Clinical Leadership and Management
Graduate Center for Nutritional Sciences
http://www.mc.uky.edu/healthsciences/index.html
http://www.mc.uky.edu/nutrisci/
900 S. Limestone
209A CTW Building
Lexington, KY 40536-0200
859-323-1100 ext 80859
Fax 859-257-2454

From: Bruckner, Geza
To: Christianson, Tabatha D
Subject: FW: GRN 250
Date: Monday, February 23, 2015 4:47:01 PM

Be Aware of the Moment

Geza Bruckner, Professor Clinical Nutrition
Department of Clinical Sciences
Director of Clinical Nutrition
Director Health Sciences, Education and Research
Programs: Human Health Sciences and Clinical Leadership and Management
Graduate Center for Nutritional Sciences
http://www.mc.uky.edu/healthsciences/index.html
http://www.mc.uky.edu/nutrisci/
900 S. Limestone
209A CTW Building
Lexington, KY 40536-0200
859-323-1100 ext 80859
Fax 859-257-2454

From: Rowles, Graham
Sent: Wednesday, January 28, 2015 2:53 PM
To: Bruckner, Geza
Cc: Watkins, John; Hunter, Elizabeth G
Subject: RE: GRN 250

Geza:

Good to hear from you. Adding this course to your program requirements would be fine. My guess is that the course would certainly be appropriate for this group. We are currently running three sections of the course (increasing to four in the Fall of this year) so the timing should not be a problem for your students. .

Best wishes,

Graham

Graham D. Rowles, Ph.D.
Professor of Gerontology
Director, Graduate Center for Gerontology
Chair, Department of Gerontology
University of Kentucky
1080 Export Street
Suite 280, Room 207
Lexington, KY 40504
growl2@uky.edu
(859) 218-0145

Fax (859 323-5747

'They won't say: The times were dark.
Rather, why were their poets silent?"
Berthold Brecht (1935)

"If you have a garden and a library, you have everything you need."
Marcus Tullius Cicero (106-43 BC)

From: Bruckner, Geza
Sent: Tuesday, January 27, 2015 3:50 PM
To: Rowles, Graham
Subject: GRN 250

Hi Graham,
We are considering adding your GRN 250 course as a required course to one of the tracks in our Clinical Leadership and Management program. We anticipate about 30 students per year in the track. Would this be OK???

Be Aware of the Moment
Geza Bruckner, Professor Clinical Nutrition
Department of Clinical Sciences
Director of Clinical Nutrition
Director Health Sciences, Education and Research
Programs: Human Health Sciences and Clinical Leadership and Management
Graduate Center for Nutritional Sciences
http://www.mc.uky.edu/healthsciences/index.html
http://www.mc.uky.edu/nutrisci/
900 S. Limestone
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Lexington, KY 40536-0200
859-323-1100 ext 80859
Fax 859-257-2454

Brothers, Sheila C

From: Schroeder, Margaret <m.mohr@uky.edu>
Sent: Tuesday, November 08, 2016 11:45 AM
To: Brothers, Sheila C; McCormick, Katherine
Subject: Suspension: BS in International Studies
Attachments: INT BS Suspension_Updated, 11_8, 2016.pdf

Proposed Suspension of BS: International Studies Program

This is a recommendation that the University Senate approve the suspension of admission into an existing undergraduate program: BS: International Studies Program, in the College of Arts & Sciences.

The revised proposal is attached.

Best-

Margaret

Margaret J. Mohr-Schroeder, PhD | Associate Professor of STEM Education - Mathematics | COE Faculty Council Vice Chair | SAPC University Senate Committee Chair | University Senator/Senate Council Member | Secondary Mathematics Undergraduate Program Chair | | Department of STEM Education | University of Kentucky | www.margaretmohrschroeder.com | Schedule a Meeting with Me

PROGRAM SUSPENSION/DELETION FORM

1. General Information

College:	Arts and Sciences	Department:	Arts and Sciences
Major Name:	International Studies	Degree Title:	B.S.
Formal Option(s), if any:	____	Specialty Field w/in Formal Options, if any:	____
CIP Code:	30.2001	Today's Date:	Nov 12, 2015
Requested Effective Date:	☒ Semester following approval.	OR	☐ Specific Date[1]: ____
Contact Person in the Dept:	Sue Roberts	Phone: 257 2399	Email: sueroberts@uky.edu

2. Suspension/Deletion Information

Nature of action:	☒ Suspension ☐ Deletion
Rationale for suspension/deletion:	Program simplification. Apparently, when the degree (thematic concentrations) were streamlined (see the B.A.) the B.S. degree was supposed to have been deleted or suspended but this somehow was never done. So this is to clear the situation up and to avoid confusing students and advisors.
What provisions are being made for students already in the program?	They will be grandfathered and advised
Will another degree program replace the one suspended/deleted?	The B.A. is still in existence and will become the sole International Studies degree available for students.
Will courses connected with the program be dropped?	Yes* ☐ No ☒
*If Yes, forms for dropping a course(s) must be attached.	

[1] Suspensions/deletions are made effective for the semester following approval. No suspension/deletion will be made effective unless all approvals, up through and including Board of Trustees approval, are received.

PROGRAM SUSPENSION/DELETION FORM

Signature Routing Log

General Information:

Proposal Name: International Studies - suspension of B.S. option

Proposal Contact Person Name: Sue Roberts Phone: 7 2399 Email: sueroberts@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
Int'l Studies Advisory Comm	11/17/15	S. Roberts / 7 2399 / sueroberts@uky.edu	
A&S	11/19/	S. / / testa@uky.edu	
A&S Assoc. Dean	11/19/16	A. / / anna.bosch@uky.edu	
		/ /	
		/ /	

External-to-College Approvals:

e

Council	Date Approved	Signature	Approval of Revision[2]
Undergraduate Council	4/12/16 Joanie Pitt-Mims		
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:

[2] 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

College of Arts & Sciences
Educational Policy Committee
202 Patterson Office Tower
Lexington, KY 40506-0027

859 257-6689
fax 859 257-2635

www.as.uky.edu/education-policy-committee

January 20, 2016

Dear Undergraduate Council,

On behalf of the faculty of the College of Arts and Sciences, the Education Policy Committee discussed and approved the International Studies B.S. Undergraduate Program Suspension proposal 8:0:1 on Tuesday, January 20, 2016.

Sincerely,

Stephen Testa
Chair, Education Policy Committee

College of Arts and Sciences
Office of the Associate Dean
for International Affairs
202 Patterson Office Tower
Lexington, KY 40506-0027
859 257-2399
fax 859 323-1073
www.is.as.uky.edu

December 12, 2015

Dean Education Policy Committee,

This letter confirms that the International Studies Advisory Committee voted and approved the suspension of the Bachelor of Science in International Studies. We are suspending the B.S. in International Studies to simplify the program and to avoid confusing students and advisors.

The Bachelors of Arts in International Studies still exists and will become the sole International Studies degree available to students. Students already in the B.S. program will be grandfathered and advised.

Sincerely,

Sue Roberts
Associate Dean for International Affairs
Director of International Studies

UNIVERSITY OF KENTUCKY

College of Arts and Sciences
Office of the Dean
202 Patterson Office Tower
Lexington, KY 40506-0027
859 257-8354
fax 859 323-1073
www.as.uky.edu

October 10, 2016

Dear Senate Council,

This letter confirms that the International Studies Advisory Committee voted and approved the suspension of the Bachelor of Science in International Studies. We are suspending the B.S. in International Studies to allow the 13 students currently pursuing a B.S. in International Studies to graduate with a Bachelor of Science.

After the five-year grace period the B.S. in International Studies will be deleted. This will simplify the program and avoid confusing students and advisors.

The Bachelor of Arts in International Studies still exists and will become the sole International Studies degree available to students. After the five-year window any remaining students pursuing a B.S. will be grandfathered and advised.

Sincerely,

Anna Bosch
Associate Dean for Undergraduate Programs

Brothers, Sheila C

From: Schroeder, Margaret <m.mohr@uky.edu>
Sent: Tuesday, November 01, 2016 9:24 PM
To: McCormick, Katherine; Brothers, Sheila C
Subject: UC: International Film Studies
Attachments: PETERS New UG Cert Form_Final (revised 10-31-16).pdf

Proposed New Undergraduate Certificate in International Film Studies

This is a recommendation that the University Senate approve the establishment of a new Undergraduate Certificate: International Film Studies, in the Department of Modern and Classical Languages, Literatures, and Cultures in the College of Arts and Sciences.

The revised proposal is attached.

Best-

Margaret

Margaret J. Mohr-Schroeder, PhD | Associate Professor of STEM Education - Mathematics | COE Faculty Council Vice Chair | SAPC University Senate Committee Chair | University Senator/Senate Council Member | Secondary Mathematics Undergraduate Program Chair | | Department of STEM Education | University of Kentucky | www.margaretmohrschroeder.com | Schedule a Meeting with Me

An Undergraduate Certificate is an integrated group of courses (as defined here 12 or more credits) that are 1) cross-disciplinary, but with a thematic consistency, and 2) form a distinctive complement to a student's major and degree program, or 3) leads to the acquisition of a defined set of skills or expertise that will enhance the success of the student upon graduation. Undergraduate Certificates meet a clearly defined educational need of a constituency group, such as continuing education or accreditation for a particular profession; provide a basic competency in an emerging area within a discipline or across disciplines; or respond to a specific state mandate.

After the proposal receives college approval, please submit this form electronically to the Undergraduate Council. Once approved at the academic council level, the academic council will send your proposal to the Senate Council office for additional review via a committee and then to the Senate for approval. Once approved by the Senate, the Senate Council office will send the proposal to the appropriate entities for it to be included in the Bulletin. The contact person listed on the form will be informed when the proposal has been sent to committee and other times, subsequent to academic council review.

Please click here for more information about undergraduate certificates.

1. GENERAL INFORMATION					
1a	Date of contact with Institutional Effectiveness (IE)[1]:	8/17/16			
	☒ Appended to the end of this form is a PDF of the reply from Institutional Effectiveness.				
1b	Home college: A&S				
1c	Home educational unit (department, school, college[2]): *Modern and Classical Languages, Literatures, and Cultures*				
1d	Proposed certificate name: *International Film Studies*				
1e	CIP Code[3]: *50.0601*				
1f	Requested effective date:	☒ Fall semester following approval.	OR	☐ Specific Date[4]: *Fall 20*	
1g	Contact person name: *Dr. Jeffrey Peters*	Email: *jnp@uky.edu*		Phone: *859-576-3499*	
2. OVERVIEW					
2a	Provide a brief description of the proposed new undergraduate certificate. *(300 word limit)*				
	The purpose of the International Film Studies certificate is threefold: 1) to introduce students in a systematic way to the history and theoretical vocabulary of cinema; 2) to provide a comparative approach through which				

[1] You can reach Institutional Effectiveness by phone or email (257-2873 or institutionaleffectiveness@uky.edu).
[2] Only cross-disciplinary certificates may be homed at the college level.
[3] In consultation with the Undergraduate Council Chair and Registrar, identify the appropriate CIP code(s) *prior* to college-level approval.
[4] Certificates are typically made effective for the semester following approval. No program will be made effective unless all approvals, up through and including University Senate approval, are received.

	students may reflect upon the nature and problematic concept of national film styles and their relation to each other in an increasingly "globalized" world; 3) to foster expertise in film analysis and its expression. *Cinema, sometimes referred to as the seventh art, was one of the great contributions to twentieth-century world culture. It will continue to be no less important in the twenty-first century and beyond where it continues to be transformed by its contact with even more recent technologies such as digital media and evolving entertainment and artistic platforms such as the internet and social media.* *The certificate in International Film Studies is a highly interdisciplinary program that would allow students to bring the knowledge they have gathered in their home departments to bear on their work in film studies. The certificate will appeal to students in numerous programs, departments, and colleges, including A&S (English, MCLLC, Hispanic Studies, History, Philosophy, Social Theory, etc.), Fine Arts, Design, Communications, and so on. The certificate in International Film Studies emphasizes, in a comparative global context, how the language and history of film intersects with closely related movements in other artistic media, in philosophy and history, and in different cultural traditions.*
2b	This proposed undergraduate certificate (check all that apply):
	☒ Is cross-disciplinary[5].
	☐ Is certified by a professional or accredited organization/governmental agency.
	☐ Clearly leads to advanced specialization in a field.
2c	**Affiliation.** Is the undergraduate certificate affiliated with a degree program? Yes ☐ No ☒
	If "yes," include a brief statement of how it will complement the program. If it is not affiliated with a degree program, incorporate a statement as to how it will provide an opportunity for a student to gain knowledge or skills not already available at UK. *(300 word limit)*
2d	**Duplication.** Are there similar regional or national offerings? Yes ☐ No ☒
	If "Yes," explain how the proposed certificate will or will not compete with similar regional or national offerings.
2d	**Rationale and Demand.** Explain the need for the new undergraduate certificate (e.g. market demand and cross-disciplinary considerations). *(300 word limit)*
	The University of Kentucky currently offers many individual courses in film studies from numerous cultural traditions, but it does not offer any formal program in film. Despite enormous interest on the part of both students and faculty in the topic, there is no major or minor in film studies at UK. *There are 25 different undergraduate film courses given regularly by the departments of Modern and Classical Languages, Literatures, and Cultures; English; Hispanic Studies; and Writing, Rhetoric and Digital Studies. These courses are very popular with students and very well enrolled. Moreover, students often inquire about the possibility of pursuing Film Studies as a major area of study.* *UK is the only institution among its nineteen official benchmarks not to offer any kind of program in film studies. All of UK's nineteen benchmarks award at least a minor or concentration in film; most offer a major; and several*

[5] An undergraduate certificate must be cross-disciplinary and students must take courses in at least two disciplines, with a minimum of three credits to be completed in a second discipline.

	have graduate programs and faculty in film. *The faculty associated with this Undergraduate Certificate proposal believe that there is sufficient student interest to warrant the creation of a minor or a major in Film Studies at UK. However, because such a program would require additional resources, likely including faculty hires, we feel that it makes sense to begin slowly, with an Undergraduate Certificate, which can be staffed simply by combining current curricula in a careful, organized, and rational way, and therefore making film courses available to students in this more formal context.*
2e	**Target audience.** Check the box(es) that apply to the target student population.
	☒ Currently enrolled undergraduate students.
	☐ Post-baccalaureate students.
2f	Describe the demographics of the intended audience. *(150 word limit)*
	Students will be undergraduates of all levels with majors in any department, but with an interest in film studies. This can include students from across the university already taking existing film courses interested in combining their film coursework into a film certificate.
2g	**Projected enrollment.** What are the enrollment projections for the first three years?

		Year 1	*Year 2* *(Yr. 1 continuing + new entering)*	*Year 3* *(Yrs. 1 and 2 continuing + new entering)*
	Number of Students	*10*	*20*	*35*

2h	**Distance learning (DL).** Initially, will any portion of the undergraduate certificate be offered via DL?			Yes ☐	No ☒
	If "Yes," please indicate below the percentage of the certificate that will be offered via DL.				
	1% - 24% ☐	25% - 49% ☐	50% - 74% ☐	75 - 99% ☐	100% ☐
	If "Yes," describe the DL course(s) in detail, including the number of required DL courses. *(200 word limit)*				

3. ADMINISTRATION AND RESOURCES

3a	**Administration.** Describe how the proposed undergraduate certificate will be administered, including admissions, student advising, retention, etc. *(150 word limit)*
	Admissions, student advising, retention, curriculum decisions, etc. will be handled by the certificate Faculty of Record (see below). There are no specific admissions requirements for the International Film Studies certificate. Any interested student may choose to pursue this course of study and fulfill the curriculum requirements, as described below. The Faculty of Record (see below) will handle advising and student progress.
3b	**Faculty of Record.** The Faculty of Record consists of the undergraduate certificate director and other faculty who will be responsible for planning and participating in the certificate program. Describe the process for identifying the certificate director. Regarding membership, include the aspects below. *(150 word limit)*

	• Selection criteria; • Whether the member is voting or non-voting; • Term of service; and • Method for adding/removing members.
	Faculty of record: Stefan Bird-Pollan (AS; Philosophy); Molly Blasing (AS; MCLLC); Walt Foreman (AS; English); Pearl James (AS; English); Matthew Losada (AS; Hispanic Studies); Liang Luo (AS; MCLLC); Thomas Marksbury (AS; WRD); Carmen Moreno-Nuno (AS; Hispanic Studies); Alan Nadel (AS; English); Jeffrey Peters (AS; MCLLC); Armando Prats (AS; English); Robert Rabel (AS; MCLLC); Jeff Rogers (AS; MCLLC); Leon Sachs (AS; MCLLC); Doug Slaymaker (AS; MCLLC) *SEE P. 6 OF ATTACHED DESCRIPTION FOR A STATEMENT ON FACULTY SELECTION.* *There will be a Faculty Director (3-year term) for the certificate who will help direct the program and deal with contingencies.* *The Faculty Director will report to the Chair of MCLLC. The Chair will also appoint the Faculty Director in consultation with the certificate faculty of record.* *The Faculty Director will be responsible for the following:* *• maintaining an official completion list according to University of Kentucky standards and procedures;* *• chairing the executive committee (see pp. 3-4).*

3c	**Advisory board.** Will the undergraduate certificate have an advisory board[6]?		Yes ☐	No ☒
	If "Yes," please describe the standards by which the faculty of record will add or remove members of the advisory board. *(150 word limit)*			
	If "Yes," please list below the number of each type of individual (as applicable) who will be involved in the advisory board.			
		Faculty within the college who are within the home educational unit.		
		Faculty within the college who are outside the home educational unit.		
		Faculty outside the college who are within the University.		
		Faculty outside the college and outside the University who are within the United States.		
		Faculty outside the college and outside the University who are outside the United States.		
		Students who are currently in the program.		
		Students who recently graduated from the program.		
		Members of industry.		
		Community volunteers.		
		Other. Please explain:		

[6] An advisory board includes both faculty and non-faculty who advise the faculty of record on matters related to the program, e.g. national trends and industry expectations of graduates.

		Total Number of Advisory Board Members		
3d	**Course utilization.** Will this undergraduate certificate utilize courses from other academic units?		Yes ☒	No ☐
	If "Yes," two pieces of supporting documentation are required. ☒ Check to confirm that appended to the end of this form is a letter of support from the other units' chair/director[7] from which individual courses will be used. The letter must include demonstration of true collaboration between multiple units[8] and impact on the course's use on the home educational unit. ☒ Check to confirm that appended to the end of this form is verification that the chair/director of the other unit has consent from the faculty members of the unit. This typically takes the form of meeting minutes.			
3e	**Financial Resources.** What are the (non-course) resource implications for the proposed undergraduate certificate, including any projected budget needs? *(300 word limit)*			
	None.			
3f	**Other Resources.** Will the proposed undergraduate certificate utilize resources (e.g. departmentally controlled equipment or lab space) from additional units/ programs?		Yes ☐	No ☒
	If "Yes," identify the other resources that will be shared. (*150 word limit*)			
	If "Yes," two pieces of supporting documentation are required. ☐ Check to confirm that appended to the end of this form is a letter of support from the appropriate chair/director[9] of the unit whose "other resources" will be used. ☐ Check to confirm that appended to the end of this form is verification that the chair/director of the other unit has consent from the faculty members of the unit. This typically takes the form of meeting minutes.			
4. IMPACT				
4a	**Other related programs.** Are there any related UK programs and certificates?		Yes ☐	No ☒
	If "Yes," describe how the new certificate will complement these existing UK offerings. *(250 word limit)*			
	If "Yes," two pieces of supporting documentation are required. ☐ Check to confirm that appended to the end of this form is a letter of support from the appropriate chair/director of the unit whose "other resources" will be used. ☐ Check to confirm that appended to the end of this form is verification that the chair/director has input from the faculty members of the unit. This typically takes the form of meeting minutes.			

[7] A dean may submit a letter only when there is no educational unit below the college level, i.e. there is no department/school.
[8] Show evidence of detailed collaborative consultation with such units early in the process.
[9] A dean may submit a letter only when there is no educational unit below the college level, i.e. there are no departments/schools.

5. ADMISSIONS CRITERIA AND CURRICULUM STRUCTURE			
5a	**Admissions criteria.** List the admissions criteria for the proposed undergraduate certificate. *(150 word limit)*		
	Students will be required to have accumulated at least 30 hours of course credit and have a cumulative GPA of at least 3.0. Eligible students will fill out an application on the webpage reserved for the certificate on the participating department websites and submit it to the Faculty Director. The Faculty Director will make admission decisions in consultation with the Faculty of Record.		
5b	**Core Courses.** List the required courses below.		
Prefix & Number	Course Title	Credit Hrs	Course Status[10]
	Introduction to Film Studies [SEE pp. 6-8 OF ATTACHED DESCRIPTION; STUDENTS MUST TAKE 3 HRS FROM THIS LIST TO FULFILL THIS REQUIREMENT]	*3*	No Change
			Select one....
			Select one....
			Select one....
			Select one....
5c	**Elective courses.** List the electives below.		
Prefix & Number	Course Title	Credit Hrs	Course Status[11]
	Comparative International Film [SEE pp.6-8 OF ATTACHED DESCRIPTION: STUDENTS MUST TAKE 9 HRS FROM LIST THAT INCLUDES THESE COURSES]	*9*	No Change
			Select one....
			Select one....
			Select one....
			Select one....
			Select one....
	Total Credit Hours:	*16(see 5d)*	
5d	Are there any other requirements for the undergraduate certificate? If "Yes," note below. *(150 word limit)*	Yes ☒	No ☐
	The Certificate Capstone Project combines a course in film studies with an added research paper. Students will write the paper as the final project for one of the courses listed above, and will receive an additional one (1) hour of credit. In addition to the chosen "Capstone Course," students will enroll in MCL 592 (Research Practicum: International Film Capstone). This is work to be produced by the student that will not be required of other students in the course who are simply taking the course for credit. The paper will be written in addition to any other coursework (exams, papers) required by the course. N.B. Students must pair MCL 592 with a film course at the 300 level or above taught by a faculty member (not by a teaching assistant or adjunct). SEE pp. 8-9 of		

[10] Use the drop-down list to indicate if the course is a new course ("new"), an existing course that will change ("change"), or if the course is an existing course that will not change ("no change").

[11] Use the drop-down list to indicate if the course is a new course ("new"), an existing course that will change ("change"), or if the course is an existing course that will not change ("no change").

	ATTACHED DESCRIPTION FOR FURTHER DETAILS.		
5e	Is there any other narrative about the undergraduate certificate that should be included in the Bulletin? If "Yes," please note below. *(300 word limit)*	Yes ☒	No ☐
	Cinema, sometimes referred to as the seventh art, was one of the great contributions to twentieth-century world culture. It will continue to be no less important in the twenty-first century and beyond where it continues to be transformed by its contact with even more recent technologies such as digital media and evolving entertainment and artistic platforms such as the internet and social media. *The certificate in International Film Studies is a highly interdisciplinary program that allows students to bring the knowledge they have gathered in their home departments to bear on their work in film studies. The certificate in International Film Studies emphasizes, in a comparative global context, how the language and history of film intersects with closely related movements in other artistic media, in philosophy and history, and in different cultural traditions.* *The certificate in International Film Studies has three goals: 1) to introduce students to the history and theoretical vocabulary of cinema; 2) to provide a comparative approach through which students may reflect upon the nature and problematic concept of national film styles and their relation to each other in an increasingly "globalized" world; 3) to foster expertise in film analysis and its expression.*		
6. ASSESSMENT			
6a	**Student learning outcomes.** Please provide the student learning outcomes for this undergraduate certificate. List the knowledge, competencies, and skills (learning outcomes) students will be able to do upon completion. (Use action verbs, not simply "understand.") *(250 word limit)*		
	Upon completion of the Undergraduate Certificate in International Film Studies, students will be able to: *1. analyze the formal and technical aspects of film language and style;* *2. recognize and define the primary aesthetic movements of world cinema, and situate them in social and historical context;* *3. develop a critical language appropriate to the analysis of film;* *4. communicate their analyses effectively in written and spoken form.*		
6b	**Student learning outcome (SLO) assessment.** How and when will student learning outcomes be assessed? Please map proposed measures to the SLOs they are intended to assess. Do not use grades or indirect measures (e.g. focus groups, surveys) as the sole method. Measures likely include artifacts such as course-embedded assessment (e.g., portfolios, research papers or oral presentations); and test items (embedded test questions, licensure/certification testing, nationally or state-normed exams). *(300 word limit)*		
	Because it is intended to provide a record of the student's accomplishments during the course of study, the Capstone Project will be used to assess the Certificate in International Film Studies (see "Certificate Capstone Project," above).		

	During its meetings each semester, the Faculty of Record will evaluate the student projects. The faculty will devise a rubric and rank the projects on a four-point scale (4=excellent; 3=very good; 2=acceptable; 1=unacceptable). The four-point scale will be coordinated with the learning objectives for the certificate, which the Capstone Project is intended to measure. The assessment goal is for 90% of students will achieve at least a score of 3 on the project. *The Certificate Capstone Project will be evaluated holistically, i.e., 90% of students will achieve at least a score of 3 with respect to each learning outcome of the Certificate. In other words, 90% of students will achieve at least a score of 3 in each of the following categories (see program "Learning Outcomes," above): 1. analyze the formal and technical aspects of film language and style; 2. recognize and define the primary aesthetic movements of world cinema, and situate them in social and historical context; 3. develop a critical language appropriate to the analysis of film; 4. communicate their analyses effectively in written and spoken form.* *Once the certificate has been fully approved through faculty governance, the Advisory Board will work with the office of assessment to develop a complete assessment plan of Student Learning Outcomes, based on this outline.*
6c	**Certificate outcome assessment[12].** Describe program evaluation procedures for the proposed undergraduate certificate. Include how the faculty of record will determine whether the program is a success or a failure. List the benchmarks, the assessment tools, and the plan of action if the program does not meet its objectives. *(250 word limit)*
	It is reasonable to assume that twenth-five to thirty-five Undergraduate Certificates in International Film Studies will be awarded at the end of the first several years of its existence. Once established and publicized, the number of certificates in this area should be expected to rise dramatically. There is an enormous amount of interest among students in this kind of program. *The Faculty of Record will be responsible for assessing the strength of the program on an annual basis, and will submit a report on the success of the program annually to the advisory board. This report will include:* *1. Number of students currently enrolled in the certificate program;* *2. Number of certificates awarded annually;* *3. Results of a brief student survey administered annually to graduates earning the certificate;* *4. Results of a brief survey administered to faculty members teaching courses for the program.* *The Advisory Board will review the faculty's report annually, as well as the results of the assessment of Student Learning Outcomes, and will discuss the need for any changes to the curriculum. The Faculty of Record will be responsible for recommending and implementing any changes to the curriculum. Furthermore, the dean of the College of Arts and Sciences organize periodic external review of the certificate program.*

7. OTHER INFORMATION

[12] This is a plan of how the certificate will be assessed, which is different from assessing student learning outcomes.

7a	Is there any other information about the undergraduate certificate to add? (*150 word limit)*

8. APPROVALS/REVIEWS

Information below does not supersede the requirement for individual letters of support from educational unit administrators and verification of faculty support (typically takes the form of meeting minutes).

	Reviewing Group Name	**Date Approved**	**Contact Person Name/Phone/Email**
8a	(Within College) *In addition to the information below, attach documentation of department and college approval. This typically takes the form of meeting minutes but may also be an email from the unit head reporting department- and college-level votes.*		
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8b	(Collaborating and/or Affected Units)		
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8c	(Senate Academic Council)	**Date Approved**	**Contact Person Name**
	Health Care Colleges Council (if applicable)		
	Undergraduate Council		

Proposal: Undergraduate Certificate in International Film Studies
Sponsoring unit: Modern and Classical Languages, Literatures, and Cultures
Contact: Jeffrey N. Peters, Professor, French and Francophone Studies (jnp@uky.edu)
Revised: November 29, 2016

Description

The purpose of the International Film Studies certificate is threefold: 1) to introduce students in a systematic way to the history and theoretical vocabulary of cinema; 2) to provide a comparative approach through which students may reflect upon the nature and problematic concept of national film styles and their relation to each other in an increasingly "globalized" world; 3) to foster expertise in film analysis and its expression.

Cinema, sometimes referred to as the seventh art, was one of the great contributions to twentieth-century world culture. It will continue to be no less important in the twenty-first century and beyond where it continues to be transformed by its contact with even more recent technologies such as digital media and evolving entertainment and artistic platforms such as the internet and social media.

The certificate in International Film Studies is a highly interdisciplinary program that would allow students to bring the knowledge they have gathered in their home departments to bear on their work in film studies. The certificate will appeal to students in numerous programs, departments, and colleges, including A&S (English, MCLLC, Hispanic Studies, History, Philosophy, Social Theory, etc.), Fine Arts, Design, Communications, and so on. The certificate in International Film Studies emphasizes, in a comparative global context, how the language and history of film intersects with closely related movements in other artistic media, in philosophy and history, and in different cultural traditions.

Rationale

The University of Kentucky currently offers many individual courses in film studies from numerous cultural traditions, but it does not offer any formal program in film. Despite enormous interest on the part of both students and faculty in the topic, there is no major or minor in film studies at UK.

There are 25 different undergraduate film courses given regularly by the departments of Modern and Classical Languages, Literatures, and Cultures; English; Hispanic Studies; and Writing, Rhetoric and Digital Studies. These courses are very popular with students and very well enrolled. Moreover, students often inquire about the possibility of pursuing Film Studies as a major area of study.

The faculty associated with this Undergraduate Certificate proposal believe that there is sufficient student interest to warrant the creation of a minor or a major in Film Studies at UK. However, because such a program would require additional resources, likely including faculty hires, we feel that it makes sense to begin slowly, with an

Undergraduate Certificate, which can be staffed simply by combining current curricula in a careful, organized, and rational way, and therefore making film courses available to students in this more formal context.

UK is the only institution among its nineteen official benchmarks not to offer any kind of program in film studies. All of UK's nineteen benchmarks award at least a minor or concentration in film; most offer a major; and several have graduate programs and faculty in film.

It seems reasonable to assume that UK should confer 10-15 undergraduate certificates in International Film Studies each year once it has been in existence for a few years.

Learning Outcomes

Upon completion of the Undergraduate Certificate in International Film Studies, students will be able to:

1. analyze the formal and technical aspects of film language and style;

2. recognize and define the primary aesthetic movements of world cinema, and situate them in social and historical context;

3. develop a critical language appropriate to the analysis of film;

4. communicate their analyses effectively in written and spoken form.

Organizational structure and requirements

The Undergraduate Certificate in International Film Studies is organized around three conceptual and methodological elements:

I. Introduction to Film Studies

> Each student is required to take one film class designated as an introduction to Film Studies (see "Curriculum" list, below). This course will not only introduce students to the history of film, but to the technical vocabulary of film study, from basic principles of *mise-en-scène*, cinematography, editing, and sound to more theoretical questions of narrative, authorship, and formal design, as well as broader considerations concerning the nature of the image and visual language. This component of the UG in International Film Studies also introduces students to the appropriate techniques of film analysis and strategies of analytical expression.

II. Comparative International Film

Students will be required to take Film Studies courses from several national film traditions (see below) and to explore cinema as an international art form. Students will examine the earliest days of filmmaking in the late nineteenth century when the language of film was basically uniform, the national film styles that began to emerge during and after World War I, as well as the new internationalization of film today that more explicitly puts, for example, Chinese and American film languages in dialogue with each other.

III. Certificate Capstone Project

In the final Film Studies course that a student takes and plans to count as part of the International Film Studies Certificate, the student will complete a research paper under the guidance of the faculty member teaching the course (see "Certificate Capstone Project" in Curriculum, 3. Capstone Course, below).

Faculty director, executive committee, and faculty of record

I. Home department: Modern and Classical Languages, Literatures, and Cultures (College of Arts and Sciences)

II. Faculty Director

There will be a Faculty Director (3-year term) for the certificate who will help direct the program and deal with contingencies.

The Faculty Director will report to the Chair of Modern and Classical Languages, Literatures, and Cultures. The Chair will also appoint the Faculty Director in consultation with the certificate faculty of record.

The Faculty Director will be responsible for the following:

- providing an original certificate of completion to each student completing requirements;

- maintaining an official completion list according to University of Kentucky standards and procedures;

- chairing the executive committee.

III. The Executive Committee

The Faculty Director will be assisted by an executive committee. The executive committee will consist of four faculty members from different disciplinary areas, for a term of two years. Whenever possible, there will be at least one faculty member from

each of the three departments currently offering film courses (English, Hispanic Studies, and Modern and Classical Languages, Literature, and Cultures, and Writing, Rhetoric, and Digital Studies). (N.B., initially, two of the four board members will serve only one year so that board membership is staggered and continuity for the future may be preserved.)

The proposed first Faculty Director:

- Jeffrey Peters, Modern and Classical Languages, Literatures, and Cultures

IV. The Faculty of Record

The Faculty of Record will meet once a semester to review policies and progress in the International Film Studies certificate.

Subcommittees will be formed from the among the Faculty of Record for the purposes of evaluating the Capstone Projects written during that semester, advising, and general assessment of the certificate program, etc. (see "Assessment" and "Certificate Capstone Project," below).

The Faculty of Record will be responsible for:

- regularly assessing the structure of the program and identifying new courses for inclusion in the curriculum;
- certificate admission;
- student advising;
- student retention;
- reviewing students' final capstone project.

Assessment

I. Certificate Program Assessment

It is reasonable to assume that twenty-five to thirty-five Undergraduate Certificates in International Film Studies will be awarded at the end of the first several years of its existence. Once established and publicized, the number of certificates in this area should be expected to rise dramatically. There is an enormous amount of interest among students in this kind of program.

The program director will be responsible for assessing the strength of the program on an annual basis, and will submit a report on the success of the program annually to the advisory board. This report will include:

1. Number of students currently enrolled in the certificate program;

2. Number of certificates awarded annually;

3. Results of a brief student survey administered annually to graduates earning the certificate;

4. Results of a brief survey administered to faculty members teaching courses for the program.

The Faculty of Record will review the director's report annually, as well as the results of the assessment of Student Learning Outcomes, and will discuss the need for any changes to the curriculum. The Faculty of Record will be responsible for recommending and implementing any changes to the curriculum. Furthermore, the dean of the College of Arts and Sciences organize periodic external review of the certificate program.

II. Student Learning Outcome Assessment (Certificate Capstone Project)

Because it is intended to provide a record of the student's accomplishments during the course of study, the Capstone Project will be used to assess the Certificate in International Film Studies (see "Certificate Capstone Project," above).

During its meetings each semester, the Faculty of Record will evaluate the student projects. The board will devise a rubric and rank the projects on a four-point scale (4=excellent; 3=very good; 2=acceptable; 1=unacceptable). The four-point scale will be coordinated with the learning objectives for the certificate, which the Capstone Project is intended to measure. The assessment goal is for 90% of students will achieve at least a score of 3 on the project.

The Certificate Capstone Project will be evaluated holistically, i.e., 90% of students will achieve at least a score of 3 with respect to each learning outcome of the Certificate. In other words, 90% of students will achieve at least a score of 3 in each of the following categories (see program "Learning Outcomes," above): 1. analyze the formal and technical aspects of film language and style; 2. recognize and define the primary aesthetic movements of world cinema, and situate them in social and historical context; 3. develop a critical language appropriate to the analysis of film; 4. communicate their analyses effectively in written and spoken form.

Once the certificate has been fully approved through faculty governance, the Faculty of Record will work with the office of assessment to develop a complete assessment plan of Student Learning Outcomes, based on this outline.

<u>Faculty of record</u>

Stefan Bird-Pollan (AS; Philosophy)

Molly Blasing (AS; MCLLC)
Walt Foreman (AS; English)
Pearl James (AS; English)
Matthew Losada (AS; Hispanic Studies)
Liang Luo (AS; MCLLC)
Thomas Marksbury (AS; WRD)
Carmen Moreno-Nuno (AS; Hispanic Studies)
Alan Nadel (AS; English)
Jeffrey Peters (AS; MCLLC)
Armando Prats (AS; English)
Robert Rabel (AS; MCLLC)
Jeff Rogers (AS; MCLLC)
Leon Sachs (AS; MCLLC)
Doug Slaymaker (AS; MCLLC)

New faculty members may participate in the International Film Studies certificate either by applying to the Faculty Director or by being invited by the Faculty Director. Interested faculty members should send a letter of interest to the Faculty Director. Faculty of record will be voting members of the certificate program and the faculty of record will also vote to add or remove new faculty members. Faculty members will have a vote in certificate affairs and their term is indefinite.

Curriculum

N.B.: students may only take courses listed in the curriculum below one time. If a student takes a course in area no. 1 (Introduction to Film Studies), for example, that student may not repeat that course in area no. 2 (Comparative International Film).

The Undergraduate Certificate in International Film Studies requires sixteen (16) hours of coursework in Film Studies.

- 3 hours may be, but are not required to be, at the 100 level
- 6 hours must be at the 300 level or above

1. Introduction to Film Studies: choose one of = 3 hrs

ENG 280: Introduction to Film (3)
FR 103: French Cinema (3)
GER 105: German Film Today (3)
JPN 283: Japanese Film (3)

2. Comparative International Film: choose three of = 9 hrs

a. The three courses must come from three separate national film traditions

CHI 321 Introduction to Contemporary Chinese Film

CLA 100 Ancient Stories in Modern Films
ENG 180 Great Movies (Subtitle required)
ENG 280 Introduction to Film
ENG 284 History of Film I
ENG 285 History of Film II
ENG 380: Film and Genre: (Subtitle required)
ENG 384: Literature and Film
ENG 480G Studies in Film
FR 103 French Cinema
FR 225 French Film Noir
FR 325 Le cinéma français [taught in French]
FR 335 War, Literature, Film
GER 105 German Film Today
GER 361 German Cinema
JPN 283 Japanese Film
PHI 393 Philosophy of Film
RUS 275 Russian Film
RUS 535 Russian Visual Studies
SPA 371 Latin American Cinema (subtitle required)
SPA 372 Spanish Cinema (subtitle required)
SPA 529 Themes in Modern and Contemporary Spanish Literature, Culture and Film (subtitle required)
SPA 539 Themes in Latin American Literature, Culture and Film (subtitle required)
WRD 311 History of Documentary
WRD 312 Introduction to Documentary
WRD 412 Intermediate Documentary

3. Certificate Capstone Project

a. Capstone course = 3 hrs

CHI 321 Introduction to Contemporary Chinese Film
ENG 380: Film and Genre: (Subtitle required)
ENG 384: Literature and Film
ENG 480G Studies in Film
FR 325 Le cinéma français [taught in French]
FR 335 War, Literature, Film
GER 361 German Cinema
PHI 393 Philosophy of Film
RUS 535 Russian Visual Studies
SPA 371 Latin American Cinema (subtitle required)
SPA 372 Spanish Cinema (subtitle required)
SPA 529 Themes in Modern and Contemporary Spanish Literature, Culture and Film (subtitle required) [N.B. may be taken only when the course topic pertains to film]
SPA 539 Themes in Latin American Literature, Culture and Film (subtitle required) [N.B. may be taken only when the course topic pertains to film]

WRD 311 History of Documentary
WRD 312 Introduction to Documentary
WRD 412 Intermediate Documentary

b. MCL 592 RESEARCH PRACTICUM (Subtitle required). = 1 hr

Total = 16 hrs

Certificate Capstone Project:

The Certificate Capstone Project combines a course in film studies with an added research paper. Students will write the paper as the final project for one of the courses listed above, under "Capstone Course," and will receive an additional one (1) hour of credit. In addition to the chosen "Capstone Course," students will enroll in MCL 592 (Research Practicum: International Film Capstone). This is work to be produced by the student that will not be required of other students in the course who are simply taking the course for credit. The paper will be written in addition to any other coursework (exams, papers) required by the course.

• The student will be responsible for consulting with the faculty member of the proposed capstone course to ensure that the faculty member is willing to advise the student on the research project in the course;

• Once approval from the faculty member teaching the course has been obtained, the student will consult with the faculty member to establish a reading and viewing list in addition to the regular course syllabus in view of producing the Capstone Project;

• The paper, usually ten to fifteen pages in length, will synthesize the analytical skills and historical and formal insights gained over the course of the International Film Studies curriculum. The paper will be evaluated based on a holistic rubric to be created by the certificate Advisory Board and will assess the extent to which the student fulfills each of the learning outcomes listed under Learning Outcomes, above.

N.B. The courses listed in this proposal only include courses currently offered at the University of Kentucky. This does not preclude additional courses that are currently in development in a number of departments/colleges, or that may be developed in the future. The curriculum will be reviewed no later than three years after the certificate is established to include new classes.

This certificate will comply in full with the requirements outlined at http://www.uky.edu/UGE/Certificates/, according to which students must earn a C or better in certificate courses to qualify for the certificate. Note also that, as per UK regulations, students must take classes in at least two disciplines (see above), assuring the interdisciplinarity of the certificate for all students.

N.B. Students must pair MCL 592 with a film course at the 300 level or above taught by a faculty member (not by a teaching assistant or adjunct).

Course descriptions

CLA 100 ANCIENT STORIES IN MODERN FILMS. (3)

This course will view a number of modern films and set them alongside ancient literary texts which have either directly inspired them or with which they share common themes. In the first part of the course, we will consider the relationship between ancient Greek epic, tragic, comic literature and the modern cinema. In the second part, we will look at a number of ways in which the city of Rome has been treated as both a physical place and as an idea or ideal in the works of both ancient Romans and modern film-makers.

FR 103 FRENCH CINEMA. (3)

A history of the French cinema from the early twentieth century to the present. Emphasis on the primary aesthetic movements of French cinematic expression in social and historical context. Attention given to the formal elements specific to film, techniques of film analysis, and the nature of visual culture. Viewing of films outside of class required. Taught in English, with no knowledge of French necessary.

GER 105 GERMAN FILM TODAY. (3)

This course examines contemporary German filmmaking from a global and cross-cultural perspective. It is not intended to be a history of German film, but an introduction to the interpretation of films produced in a specific national context outside of what is commonly referred to as Hollywood

ENG 180 GREAT MOVIES (Subtitle required). (3)

A course introducing students to films of various genres and styles, from both historical and contemporary filmmakers, investigating a particular issue or theme. Topics vary by semester and are chosen by faculty to give a broad-based understanding of important cinematic works and trends. Intended as a general humanities course for non-majors. Lecture. See departmental listings for different offerings per semester. Does not fulfill ENG premajor requirement or provide ENG Major Elective credit. Provides ENG minor credit.

FR 225 FRENCH FILM NOIR. (3)

Examines the crime thriller and the “noir” style in French cinema during the 1940s and 50s. Emphasis on the aesthetic, philosophical, and historical origins of the crime film in France, the impact of French cinema on Hollywood film noir, and the role of noir in French visual culture. Viewing of films outside of class required. Taught in English, with no knowledge of French necessary.

RUS 275 RUSSIAN FILM. (3)

This course will introduce students to the major films and film makers of the Soviet Union and Russia. It will trace the major artistic, political, cultural, and social influences and movements that shaped Russian and Soviet film. Students will view not only Russian feature films, but also documentary films and animation. Students will explore how the history and products of Russian and Soviet film are woven into the larger context of world cinema and into (Soviet) Russian history and society. Students will consider how the components of the films themselves contribute to their notoriety and lasting appeal. Taught in English.

ENG 280 INTRODUCTION TO FILM. (3)

An introduction to the study of films as narrative art and cultural documents. The course involves viewing and analyzing films from different genres and investigating a unified theme or set of topics. Students will learn how to view films closely, how to relate films to their contexts, and how to employ the basic terms and concepts of film analysis. Attention will be paid to student writing, particularly to devising a thesis, crafting an argument, and learning how to use supporting evidence. Viewing films outside of class is required. See departmental listings for different offerings per semester. Offers UK Core credit for Intellectual Inquiry in the Humanities. Does not fulfill ENG premajor requirement. Can be taken for ENG Major Elective credit. Provides ENG minor credit. Credit will not be given to students who already have credit for ENG 281. Prereq: Graduation Writing Requirement Course – credit is awarded to students meeting the GWR prerequisite.

JPN 283 JAPANESE FILM. (3)

Study of Japanese films as an expression of Japanese culture. Viewing of films outside of class required.

ENG 284 HISTORY OF FILM I. (3)

An introduction to the history of film as art and industry from the invention of the moving picture to World War II. Emphasis is on the artistic development of the silent film in America and Europe, the rise of the American studio system, and the emergence of sound in film in the 1930's. Filmmakers may include the Lumière brothers, Georges Meliès, Buster Keaton, D. W. Griffith, Charlie Chaplin, King Vidor, Alan Crosland, Leni Riefenstahl, and others. Lecture. Viewing films outside of class is required. Does not fulfill Historical Survey requirement. Can be taken for ENG Major Elective requirement. Provides ENG minor credit. Credit will not be given to students who already have credit for ENG 381.

ENG 285 HISTORY OF FILM II. (3)

A chronological survey of narrative film (primarily American) from World War II to the present, concentrating on both canonical films (such as Hitchcock's Vertigo) and often overlooked examples of cult, low budget, and independent film. Many paradigms of the major genres are included: musical, film noir, gangster, screwball comedy, horror and science fiction, western, and more. This survey also examines more idiosyncratic work of auteur directors (Nicholas Ray, Jane Campion), films capturing a specific sociopolitical moment (e.g. Spike Lee's Do the Right Thing), and larger cinematic movements such as Italian neo-realism, French New Wave cinema, and the New Hollywood of the 70's. Lecture. Viewing films outside of class is required. Does not fulfill ENG Historical Survey requirement. Can be taken for ENG Major Elective requirement. Provides ENG minor credit. Credit will not be given to students who already have credit for ENG 382.

WRD 311 HISTORY OF THE DOCUMENTARY. (3)

This course is designed to trace the evolution of the documentary film. Although the emphasis will be on the development of the American documentary, students will also be looking into contributions from across the world. Prereq: Completion of Composition and Communication requirement or consent of instructor.

WRD 312 INTRODUCTION TO DOCUMENTARY. (3)

This course is dedicated to critical examination of approaches to the documentary, and the construction of a documentary of one's own. Students will examine different strategies, structures, and topics, with an eye to production. Prereq: Completion of Composition and Communication requirement and consent of instructor.

CHI 321 INTRODUCTION TO CONTEMPORARY CHINESE FILM. (3)

The course offers an overview of major films, directors and actors in the contemporary PRC, Taiwan and Hong Kong. It examines the genres of Chinese film better known in the U.S., including the Hong Kong action film, fifth-generation mainland cinema and Taiwanese urban dramas. The course will provide an understanding of contemporary Chinese cinema through analyses of the content and style, poetics and politics of films/filmmakers/film movements, that reflect the Chinese cultural value system and differing Chinese aesthetics vis-a-vis Western and Hollywood views. All films are screened with English subtitles. Prereq: Junior status or consent of instructor.

FR 325 FRENCH CINEMA (Subtitle required). (3)

An introduction to the analysis of film and to the major movements in the history of French cinema. May be repeated up to 6 hours with different subtitle. (Taught in French.) Prereq: FR 204.

FR 335 WAR, LITERATURE, FILM. (3)

This course examines the strategies used by French writers and filmmakers to translate the experience and memory of World War I and World War II into literary and cinematic form. Topics treated will include eyewitness testimony, uses of irony and humor, the representation of disfigurement, the question of documentary, collaboration with the enemy, and practices of commemoration. Taught in English, with no knowledge of French necessary

GER 361 GERMAN CINEMA. (3)

A history of the cinema in the German-speaking world from its beginnings to the present, emphasizing the evolution of the production, distribution and reception of film in relation to changing political, social, economic, ideological and literary/artistic contexts. Some consideration of film theory and criticism in conjunction with class discussion of individual films. Viewing of films (silent or German dialogue with English subtitles) outside of class is required. Class taught in English.

SPA 371 LATIN AMERICAN CINEMA: (Subtitle required). (3)

An introduction to the analysis and interpretation of cinema in general and Latin American cinema in particular. Open to majors and nonmajors. The course will focus on films from the Latin American schools of cinema which will be studied in their social, political, and cultural context and introduce students to basic critical vocabulary. Viewing of films (with English subtitles) outside of class is required. Class lectures in English; sections in English or Spanish depending on the language ability of student. Course cannot be repeated.

SPA 372 SPANISH CINEMA: (Subtitle required). (3)

An introduction to the analysis and interpretation of cinema in general and Spanish cinema in particular. Open to majors and non-majors. The course will focus on films from the Spanish schools of cinema which will be studied in their social, political and cultural context and introduce students to basic critical vocabulary. Viewing of films (with English subtitles) outside of class is required. Class lectures in English; sections in English or Spanish depending on the language ability of student. Course cannot be repeated.

ENG 380 FILM AND GENRE (Subtitle required). (3)

An advanced course exploring one or two film genres, styles, or formal categories. It focuses on analyzing the parameters and practices of a broad generic category (e.g. gangster films; documentaries; biographies; war films) or a genre specific to a particular period (e.g. early silent films; twentieth-century horror films). Viewing films outside of class is required. See departmental listings for different offerings per semester. Provides ENG Major Elective credit and ENG minor credit. Prereq: Completion of UK Core

Composition and Communication I-II requirement or equivalent. ENG 280, 284, or 285 are recommended but not required.

ENG 384 LITERATURE AND FILM. (3)

This course explores the relationship between two creative traditions, literature and film, focusing on film adaptations of literary works for the screen. Subjects can include the adaptation of works by a particular writer such as Shakespeare or Jane Austen, or it may range more widely among the thousands of innovative cinematic reinventions of literary texts, e.g. Richardson's Tom Jones, Altman's Short Cuts. In some semesters the course may focus on a particular topic or genre and its treatment in both literary and cinematic texts, or on a particular moment when cinema and literary writers exerted a strong mutual influence (such as Hollywood in the 1920's). Viewing films outside of class is required. Provides ENG Major Elective credit and ENG minor credit. Prereq: Completion of UK Core Composition and Communication I-II requirement or equivalent. ENG 280, 284, or 285 are recommended but not required.

PHI 393 PHILOSOPHY OF FILM. (3)

An examination of the aesthetics of film from the early 20th Century to the present, with a focus on how the experience of film as a medium changes our relation to the world of objects as well as our relation to other people, and how changes in the medium of film itself have altered aesthetic theories.

WRD 412 INTERMEDIATE DOCUMENTARY PRODUCTION. (3)

This course explores a range of documentary approaches and styles, after which workshop and production of students' own documentaries will be emphasized. Students will focus on particular approaches and subjects to develop their individual signatures and styles. Prereq: Completion of WRD 312 or consent of the instructor.

ENG 480G STUDIES IN FILM (Subtitle required). (3)

An advanced course in the history, analysis, criticism, and theory of film. Viewing of films outside of class is required. See departmental listings for different offerings per semester. May be repeated to a maximum of 9 hours under different subtitles. Prereq: ENG 330 Text and Context or consent of the instructor. Fulfills ENG Major 400-level course requirement. ENG 280 strongly recommended. Provides ENG Major Elective credit and ENG minor credit.

SPA 529 THEMES IN MODERN AND CONTEMPORARY SPANISH LITERATURE, CULTURE AND FILM (SUBTITLE REQUIRED). (3)

This course is a topics course in Modern and Contemporary Spanish Literature, Film and Culture. Appropriate for advanced undergraduates and MA level graduate students. May

be repeated to a maximum of six credits under different topic. Prereq: For undergraduates: SPA 400 or permission of instructor.

SPA 539 THEMES IN LATIN AMERICAN LITERATURE, CULTURE AND FILM (SUBTITLE REQUIRED)

This course is a topics course in Modern and Contemporary Latin American Literature, Film and Culture. Appropriate for advanced undergraduates and MA level graduate students. May be repeated to a maximum of six credits under different subtopic. Prereq: For undergraduates: SPA 400 or permission of instructor.

RUS 535 RUSSIAN VISUAL STUDIES (Subtitle required). (3)

This course is designed to introduce a variety of critical approaches used in the study of visual culture in Russian culture. The course may focus on various visual media such as film, image (in media, photography and propaganda), architecture and art. The course may focus on one particular aspect of visual culture or may compare visual genres or may compare visual media to other aspects of culture. Students taking the course for Russian credit will be required to read and do research in Russian. May be repeated for up to 6 credits with different subtitles.

MCL 592 RESEARCH PRACTICUM (Subtitle required). (1-3) In this course students engage in directed research designed to broaden and deepen their expertise in a specific research area, and to extend and refine their investigative and research skills. The research work may be performed alone or as a part of a team, and the research focus may include (but is not limited to): an independent topic/project in the students' area(s) of study; a topic/project closely connected with an upper-level seminar in which the students are currently enrolled; or a topic/project within the research agenda of the faculty member offering the course. The research performed in this course will result in a report to be published or presented in an appropriate public research venue (departmental symposium; campus-wide research publication or presentation; professional conference or publication; etc.). Course may be taken for up to 9 credits, with either multiple projects or a longer-term, ongoing single project. Prereq: Junior standing or higher (or consent of instructor).

Minutes of the 2013-14 Arts & Sciences Educational Policy Committee

The Educational Policy committee convened **Tuesday, March 04, 2014** at 12:30pm in 318 POT Patterson Office Tower. Yanira Paz presided.

Present: Yanira Paz, Carl Lee, Stephen Testa, Tom Troland, Philipp Kraemer, Ernie Yanarella; Ruth Beattie, Associate Dean

Announcement(s)
The next scheduled meeting will be Tuesday, **April 1, 2014** and meet at 12:30pm in **318 POT**, presiding, Sadia Zoubir, Chair. The remaining meeting dates for 2013-14 will be: Apr. 15, 29.

2014 Outstanding Teaching Assistant Certificate nominations will be sent to area subcommittees March 7 to select 5 awards for the area; review committee will have 11 working days and 2 weekends not including Spring Break prior to the EPC meeting April 1.

Agenda

The February 18, 2014 minutes were accepted.

These curricular proposals were assigned as follows:

GEO 399, 560 course change, Kraemer
SPA 251 new course, Eldred
MCL CLA MA program change, adding options, Yanira Paz

Curricular proposals as consent items:

Yanarella	MCL UG Certificate in International Film
Troland	CHE 372, 472, 572
Testa	EES 685 new

Curricular proposals pending:

Eldred	PHI 205 new
Zoubir	PHI 393 new
Paz	LACLS Graduate Certificate

Hahn Fellowship rankings of nominees for 2014-15, Awards sub-committee were provided by Ernie Yanarella

Tom Troland recommended that the proposed A&S Baccalaureate of General Studies be based on UK and college requirements which would allow students to include coursework from other colleges. Ruth Beattie will have a data report done from this perspective. The feasibility for students meeting the new UK Graduation Composition and Communication requirement (GCCR) can be verified when all the college proposals have been submitted.

Meeting adjourned at 1:30pm.

Respectfully submitted,
Roxie Hanson, Recording Secretary

Future Items SOC BA and BS change of major requirements
A&S Baccalaureate Degree, discipline area course lists

Educational Policy Committee meets: Tuesdays 12:30-1:50pm, 318 Patterson Office Tower
Sept. 3, 10; Oct. 1, 15, 29 (optional); Nov. 5, 19; Dec. 3, 17 (optional); Jan.21; Feb. 4, 18; Mar. 4; Apr. 1, 15, 29
Undergraduate Council meets: alternate Tuesdays at 3:30-5:00pm
Graduate Council meets: alternate Thursdays 1:00-3:00pm, 104 Gillis Bldg.
University Senate meets: 2nd Monday of the month, 3:00-5:00pm, W.T. Young Library Auditorium

More

ENG classes for International Film Studies Certificate

Inbox x

Clymer, Jeffory A Aug 17 (1 day ago)

to me

Dear Jeff,
The English Department approves use of the following ENG courses in the International Film Studies certificate program:

ENG 180 Great Movies (Subtitle required)
ENG 280 Introduction to Film
ENG 284 History of Film I
ENG 285 History of Film II
ENG 380: Film and Genre: (Subtitle required)
ENG 384: Literature and Film
ENG 480G Studies in Film

Yours,
Jeff Clymer

Jeffory A. Clymer
Professor and Chairperson
Department of English
University of Kentucky
859.257.2901
http://english.as.uky.edu/users/jaclym3
http://english.as.uky.edu/

More

Professor Peters,

This is to confirm our approval that the courses indicated below could be used as part of the Undergraduate Certificate in International Film Studies.

SPA 371 Latin American Cinema (subtitle required)

SPA 372 Spanish Cinema (subtitle required)

SPA 529 Themes in Modern and Contemporary Spanish Literature, Culture, and Film (subtitle required)
SPA 539 Themes in Latin American Literature, Culture, and Film (subtitle required)

Saludos,

Yanira

Yanira B. Paz, Ph.D

Chair | Professor of Spanish

Department of Hispanic Studies | University of Kentucky

More

Int'l Film Certificate

Inbox x

Rouhier-Willoughby, Jeanmarie Aug 17 (1 day ago)

to me

Dear Jeff-

MCLLC is in support of including the courses below as part of the Int'l Film Certificate. Please let me know if you need any additional information,

Best, Jeanmarie

CHI 321 Introduction to Contemporary Chinese Film
CLA 100 Ancient Stories in Modern Films
FR 103 French Cinema
FR 225 French Film Noir
FR 325 Le cinéma français [taught in French]
FR 335 War, Literature, Film
GER 105 German Film Today
GER 361 German Cinema
JPN 283 Japanese Film
RUS 275 Russian Film
RUS 535 Russian Visual Studies

****

Jeanmarie Rouhier-Willoughby
Professor of Russian, Folklore, and Linguistics
Chair, Department of Modern and Classical Languages
1055 Patterson Office Tower
University of Kentucky
Lexington, KY 40506
(859) 257-1756

More

International Film Studies Certificate

Inbox x

Brandon C. Look 11:40 AM (1 minute ago)

to me

Dear Prof. Peters,

On behalf of the Philosophy Department, I wish to lend my support to the proposal for an Undergraduate Certificate in International Fil Studies. Indeed, we see our course, PHI 393 (Philosophy of Film), as being an ideal complement to this program.

With best wishes,
Brandon

--
Brandon C. Look
Professor and Chair
Department of Philosophy
University of Kentucky
1415 Patterson Office Tower
Lexington, Kentucky 40506-0027
USA
Tel. (o): +1-859-257-1862
Tel. (c): +1-502-542-5687

More

Urgent-ish: Certificate in International Film Studies Inbox x

Jeffrey Peters Hi Jeff, As you may recall, I, in collaboration with colleagues of yours in W... Aug 17 (1 day ago)

Jeff Aug 17 (1 day ago)
to me

Hi Jeff

WRD approves the usage of these courses in the Undergraduate Certificate in International Film Studies.

best,

Jeff

Jeffrey Peters <petersjnp@gmail.com> Aug 17 (1 day ago)
to Jeff

Thanks, Jeff!

Click here to Reply or Forward

University of Kentucky
Modern and Classical Languages, Literatures, and Cultures
Department Faculty Meeting
January 26, 2016
18th floor Boardroom, Patterson Office Tower

Minutes (excerpt)

Faculty in attendance: David Hunter, Interim Chair, Gloria Allaire, Ishan Bagby, Francis Bailey, Molly Blasing, Brenna Byrd, Jacqueline Couti, Stayc Dubravac, Ted Fiedler, Jay Francis, Daniel Frese, Atsushi Hasegawa, Jianjun Ha, Hilary Herzog, Julie Human, Marro Inoue, Ioana Larco, Liang Luo, Milena Minkova, Jackie Murray, Joe O'Neil, Aiyub Palmer, Jeffrey Peters, Suzanne Pucci, Bob Rabel, Jeff Rogers, Cindy Ruder, Leon Sachs, Jeorg Ellen Sauer, Ethan Sharp, Doug Slaymaker, Jennifer Tunberg, Terry Tunberg, Valario Valeri, Linda Worley, Ghadir Zannoun.

7. Peters: reported that the Film Studies certificate is in its final stages. Formal approval of the certificate is needed from the department and participating faculty. Fiedler moved to give approval; Francis seconded the motion. Unanimous approval, no abstentions.

University of Kentucky English Department Faculty Meeting
Wednesday, January 13th, 2016
245 Patterson Office Tower
Minutes

Attendees:

Jonathan Allison	DaMaris Hill	Erik Reece
Jeff Clymer	Pearl James	Ellen Rosenman
Andy Doolen	Julia Johnson	Michelle Sizemore
Janet Eldred	Peter Kalliney	Michael Trask
Andrew Ewell	Joyce MacDonald	Nazera Wright
Walt Foreman	Gurney Norman	Lisa Zunshine
Mike Genovese	Hannah Pittard	
Manuel Gonzales	Jill Rappoport	

Undergraduate Certificate in International Film:

- Discussion ensued about this certificate.
- 22 vote in favor of department faculty and courses being a part of the Undergraduate Certificate in International Film, 0 opposed, 0 abstained.

Professor Jeffrey N. Peters
Division of French
Modern and Classical Languages, Literatures and Cultures
CAMPUS

January 24, 2016

Dear Dr. Peters:

We have read through your proposal for the Undergraduate Certificate in International Film Studies and appreciate all of the work that you and others are doing to take a step toward formalizing and streamlining the curriculum of the many courses in International Film that are taught on our campus every year.

For five years now both the SPA 371 and SPA 372 UKCore courses mentioned in this proposal have been taught every year and are taught in English. The Department of Hispanic Studies intends to continue with these offerings, with the same regularity. These are high-enrollment courses and there are currently three tenured or tenure-track faculty regularly teaching them.

We agree to be listed as Associated Faculty and fully support this initiative.

Susan Larson
slarson@uky.edu

Matthew Losada
mattlosada@uky.edu

Carmen Moreno-Nuño
morenonuno@uky.edu

UG Cert Intl Film 1-16-16 (revised).pdf
116K

Bird-Pollan, Stefan <stefanbirdpollan@uky.edu> Sun, Jan 17, 2016 at 10:24 AM
To: Jeffrey Peters <petersjnp@gmail.com>

Dear Jeff

Thanks for putting this together.
I can confirm that I am pleased to be part of the program.

All the best
Stefan

Sent from my iPhone
Sorry for any typos

UG Cert Intl Film 1-16-16 (revised).pdf
116K

Marksbury, Thomas <thomas.marksbury2@uky.edu> Tue, Jan 19, 2016 at 2:45 PM
To: Jeffrey Peters <petersjnp@gmail.com>

hi, Jeffrey:

First of all, thanks so much for getting all of this organized. Pleasing people who control the future of your project but probably will never really understand it is hard tedious work, and I certainly hope your proposal does

the trick. Although I was involved initially, I hadn't heard anything about the certificate lately, so when I saw the draft, I was very pleased to see my name attached. I definitely want to be a part of it, and hope this will serve as a formal acceptance.

Although my name is on the faculty of record, WRD is not listed as a participating department and none of my courses are listed. Since you called this a draft--which looks pretty much finished to me, otherwise--I hope there still is a chance to make those additions.

I teach three courses on documentary: WRD 311 (History of Documentary), WRD 312 (Introduction to Documentary), and WRD 412 (Intermediate Documentary). I also teach two courses under the title Studies in Popular Culture (WRD 410: the Rhetoric of Horror and the Rhetoric of Noir) which seem like they might fit.

If there's still time, I can get you the course descriptions and exact titles--this is just off the top of my head. If the the 410s conflict in any way--I think you teach French Film Noir and Jeff Rogers teaches Horror through German--I completely understand.

This is an exciting opportunity and, again, thanks for expediting it. I look forward to moving ahead with this soon.

All best,

Tom Marksbury

Writing Rhetoric and Digital Studies

More

RE: Proposed New Undergraduate Certificate in Film Studies- Suggested CIP Code Assignment & No Substantive Shange--Instiutional Effecyiveness Response

Inbox x

Alexander-Snow, Mia 12:29 PM (23 hours ago)

to me

Hello Jeff,

Thank you for your email regarding the proposed new **Undergraduate Certificate in Film Studies.** My email will serve 3 purposes: 1.) Verification and notification that you have contacted PIE—a Senate requirement for proposal approval.; 2.) suggested CIP; and 3.) Next steps for SACSCOC. Please Note: Once you and your faculty have identified the CIP code that best characterizes the proposed program, please send me an email with the selected CIP and completed Substantive change Checklist (refer to attachment)by Monday, August 29.

1. **Verification that PIE has reviewed the proposal**: Based on the proposal documentation presented and Substantive Change Checklist, the proposed program changes (refer to list below) are not substantive changes as defined by SACSCOC, the university's regional accreditor. Therefore, no additional information is required by the Office of Planning & Institutional Effectiveness at this time. The proposed program change(s) may move forward in accordance with college and university-level approval processes.

2. **CIP #:** Based on the review of the proposal, PIE has identified several CIP Codes (see below). Please review the CIP Code Assignments in consultation with the Undergraduate Council Chair, Dr. Amy Sprigs, to be sure the selected CIP is the most appropriate for the proposed program.

Brothers, Sheila C

From: Schroeder, Margaret <m.mohr@uky.edu>
Sent: Monday, December 05, 2016 4:56 PM
To: Brothers, Sheila C; McCormick, Katherine; Molloy, Janelle
Subject: Proposed PhD in Radiation and Radiological Sciences

Proposed New PhD: Radiation and Radiological Sciences

This is a recommendation that the University Senate approve, for submission to the Board of Trustees, the establishment of a new PhD degree: Radiation and Radiological Sciences, in the Department of Radiation Medicine within the College of Medicine.

Rationale for the Program:

Recent changes in Medical Physics educational standards have been mandated by national entities, including the American Association of Physicists in Medicine (AAPM), the American Board of Radiology (ABR), and the Commission on the Accreditation of Medical Physics Training Programs (CAMPEP). Presently, neither an MS nor PhD graduate degree in Medical Physics is considered sufficient educational preparation for entry into the clinical profession. Entrance into the clinical certification process (administered by the ABR) requires graduation from an accredited Medical Physics residency program, in addition to a graduate degree. Such residency programs are relatively new to the profession and are insufficient in number to meet the demands of the workforce and applicants. Despite the excellent success rate that our current program graduates have achieved in terms of securing the limited residency positions, this has limited our program's ability to grow and has hampered our ability to improve the revenue-expense ratio. A PhD pathway will allow students to pursue academic careers, as well as increase their competitiveness for residency positions. Further, this allows for multiple attempts at residency positions, as these may be sought at the conclusion of the MS portion and the PhD portion of the program.

Please find the revised program attached.

Best-
Margaret

Margaret J. Mohr-Schroeder, PhD | Associate Professor of STEM Education - Mathematics | COE Faculty Council Vice Chair | SAPC University Senate Committee Chair | University Senator/Senate Council Member | Secondary Mathematics Undergraduate Program Chair | | Department of STEM Education | University of Kentucky | www.margaretmohrschroeder.com | Schedule a Meeting with Me

NEW DOCTORAL DEGREE PROGRAM FORM

(Attach completed "Application to Classify Proposed Program"[1])

GENERAL INFORMATION

College:	College of Medicine	Department:	Radiation Medicine
Major Name:	Radiation and Radiological Sciences	Degree Title:	Doctor of Philosophy
Formal Option(s):	NA	Specialty Fields w/in Formal Option:	NA
Date of Contact with Associate Provost for Academic Administration[1]:	2/26/15		
Bulletin (yr & pgs):	_____	CIP Code[1]:	51.2205
Today's Date:	3/17/15		
Accrediting agency (if applicable):	Commission on the Accreditation of Academic Medical Physics Programs (CAMPEP)		
Requested Effective Date:	☒ Semester following approval. OR ☐ Specific Date[2]: _____		
Dept Contact Person:	Janelle A. Molloy	Phone: 257-7612	Email: janelle.molloy@uky.edu

1. Number of transfer credits allowed:	9 hours of relevant graduate course credit may be transferred from another institution or another program if non-medical physics. Students transferring from the Radiation Sciences MS program at UK may transfer course credits from first 2 semesters (see associated documentation). If the student has an MS from another institution or program, up to 18 hours from course credits from the MS may be credited toward the pre-qualifying exam residency requirement.
(Maximum is Graduate School limit of total of 9 hours (or 25% of the credit hours needed to fulfill the pre-qualifying residency requirement.)	
2. Residence requirement:	A student must complete a minimum of 36 hours of residency before the qualifying exam and 2 semesters of residency after qualifying exams.
(Minimum of one year before and after Qualifying Exams.)	
3. Language(s) and/or skill(s) required:	Proficiency in research methods in Medical Physics. This will be demonstrated by completion of the course "Research Methods in Medical Physics, RAS 711" with a grade of 'B' or higher. Successful completion of this course will demonstrate advanced skill in computer programming, hypothesis development, research proposal development and technical writing.
4. Provisions for monitoring progress and termination criteria:	All students must complete the core didactic requirements. This typically requires 4-6 semesters to complete. Candidates will take part 1 of the qualifying exam (written) in the second

[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.

	year. Students who successfully pass part 1 of the qualifying exam (2 attempts are permitted) will be permitted to proceed in the PhD program. Students who opt out of the qualifying exam, or who do not pass it, will have the opportunity to complete the remaining requirements for the MS degree, including the existing culminating oral exam. The program is designed to allow for the option of training clinician/investigators. As such, the third year may be spent completing what is now primarily the first year of our Medical Physics Residency. This consists of 4 rotations, each lasting 3 months in duration. Three of these rotations constitute clinical training/service and one is research-oriented. The research rotation will serve towards the research requirement of the PhD degree. The student must orally defend a written proposal for the selected dissertation topic. This oral defense constitutes part 2 of the qualifying exam. The proposal defense will be delivered to the student's dissertation advisory committee, typically before the end of the third year. Following the third year, the student will focus on the selected research topic. Progress will be monitored annually by the student's dissertation advisory committee. The PhD will be granted following completion of an acceptable dissertation and defense following standard University of Kentucky procedures and guidelines. After successful completion of the PhD degree, or when successful completion is imminent, the student may engage in further clinical training activities. This final phase of the program is expected to last 1 year, and will consist of what is now the second year of the 2-year Medical Physics Residency. Fulfillment of the clinical residency requirements will follow appropriate policies and guidelines of relevant oversight entities, such as the Commission on the Accreditation of Medical Physics Education Programs (CAMPEP). Although the program is structured to allow for the combined PhD/Residency pathway, PhD candidates are not required to pursue the clinical training options and are permitted to focus primarily on the research-only pathway. The standards and quality of the research expectations for successful completion of the PhD program shall not be compromised for students pursuing the combined research/clinical training pathway.
5. Total credit hours required:	A minimum of 51 credit hours are required.

	These include 36 hours of pre-qualifying residency and 4 hours of post-qualifying residency.
6. Required courses :	See Attachment A
7. Required distribution of courses within program:	The elective credit hours (18) must include at least 6 credit hours of graduate level (i.e., 4xxG, 5xx, 6xx or 7xx) didactic coursework covering related topics in science, engineering, or medicine (listed as "Variable" in Appendix A). These credits must be approved by the student's dissertation advisor. The remaining 12 credit hours may be fulfilled by any combination obtained from the list of "Course electives for PhD in Radiation Sciences" in Attachment A.
8. Minor area or courses outside program required:	A minimum of 6 credit hours of didactic coursework are required in a related science, engineering or medical field. These must be 4xxG level or above and be approved by the student's dissertation advisor.
9.Distribution of courses levels required (400G-500/600-700):	See Attachment A
10. Qualifying examination requirements	The qualifying exam will consist of two major components, one written and one oral. Students must pass both to be allowed to progress in the PhD program. The written exam will be a problem-based exam consisting of 4 parts. These are; • Radiological Physics and Dosimetry • Physics of Medical Imaging • Physics of Radiation Therapy • Elective topic (select one) o Advanced Radiation Therapy Physics o Advanced Medical Imaging Physics o Other advanced topic approved in advance by the student's dissertation advisory committee The written exam will be taken in the second year of the program and a score of 50% or greater will be required in order to pass. Students who do not pass on the first attempt will be allowed a second attempt. If the second attempt is unsuccessful then the student will not be allowed to proceed in the PhD program. The oral exam will be taken after successful completion of the written exam, but typically not to exceed 3 years from the initial date of enrollment. The student must orally defend a proposal for the selected dissertation topic. The proposal defense will be delivered to the student's dissertation advisory committee.

NEW DOCTORAL DEGREE PROGRAM FORM

11. Explain whether the proposed new 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).
A minimum of 6 credit hours of didactic coursework are required in a related science, engineering or medical field. These must be 4xxG level or above and be approved by the student's dissertation advisor. The intent of this requirement is to encourage interdisciplinary collaboration and to develop rigorous scientific skills. The selection of the specific courses is variable.
12. Other requirements not covered above:
None
13. What is the rationale for the proposed new program? Include specific references to accreditation requirements if applicable.
A full description of the program and motivation is included in Attachment B. The addition of a PhD program in Radiation and Radiological Sciences is expected to provide the following benefits • Facilitate recruitment of high quality students • Provide additional training and application opportunities for students seeking to enter Medical Physics Residencies. Such residencies are a recent requirement for entry into the clinical certification process and are extraordinarily competitive. • Support the research mission of the university and medical center by increasing the number of peer reviewed publications, enhancing the imperative for and success of obtaining extramural funding, and facilitate the recruitment of faculty with scholarly skills and motivations. • Improve quality in Radiation Medicine and Radiology through clinically-oriented research projects. • Provide a cost-effective enhancement to the educational and clinical missions by incorporating teaching and graduate assistantships for educational and clinical service, respectively. • Increase our program graduates' ability to succeed in an increasingly competitive market for jobs and clinical residency positions. Increase the stature of the program nationally

Signature Routing Log

General Information:

Proposal Name: _____

Proposal Contact Person Name: _____ Phone: _____ Email: _____

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
		/ /	
		/ /	
		/ /	
		/ /	

NEW DOCTORAL DEGREE PROGRAM FORM

Signature Routing Log

General Information:

Proposal Name: _____

Proposal Contact Person Name: _____ Phone: _____ Email: _____

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
Dept. of Radiation Medicine	01/15/2015	/ /	
College of Medicine - Faculty Council	10/13/2015	/ /	
Graduate Council	12/11/2015	/ /	
		/ /	
		/ /	

Section II

Abstract

Medical Physics is a profession that includes clinical, industrial and academic practices. Clinically, medical physicists provide support services primarily in Radiation Therapy and Diagnostic Radiology settings. Both areas involve varying degrees of hardware and algorithm development. For example, intensity modulated radiation therapy is a method of delivering radiation with very high spatial precision. It required development of mathematical algorithms, complex linear accelerator delivery systems, and patient-specific testing protocols.

Presently, the Radiation Sciences program at the University of Kentucky provides training in Medical Physics via a terminal Masters degree under the Plan B, non-thesis option. This program is referred to elsewhere is the submitted documentation as our "legacy" MS program. This includes an intensive clinical practicum which is unique compared to other Medical Physics training programs and is the source of our national recognition. The legacy MS program requires 30 hours of didactic coursework.

This training traditionally prepared students for careers in clinical medical physics, most typically supporting patient treatment in private practice radiation therapy clinics. Although the MS level training can be considered sufficient for these types of positions, clinics housed in academic departments, and even some private clinics, prefer to hire candidates with terminal degree credentials (i.e., PhD).

Recent changes in Medical Physics educational standards have been mandated by national entities, including the American Association of Physicists in Medicine (AAPM), the American Board of Radiology (ABR), and the Commission on the Accreditation of Medical Physics Training Programs (CAMPEP). Presently, neither an MS nor PhD graduate degree in Medical Physics is considered sufficient educational preparation for entry into the clinical profession. Entrance into the clinical certification process (administered by the ABR) requires graduation from an accredited Medical Physics residency program, in addition to a graduate degree. Such residency programs are relatively new to the profession and are insufficient in number to meet the demands of the workforce and applicants. Despite the excellent success rate that our current program graduates have achieved in terms of securing the limited residency positions, this has limited our program's ability to grow and has hampered our ability to improve the revenue-expense ratio.

There is speculation that candidates for Medical Physics Residency positions are more competitive if they possess a PhD degree. Data indicate that approximately half of all residency positions go to candidates with MS degrees and half to those with PhDs. As such, students in our program are only eligible for about half of the available residency slots.

A PhD pathway will allow students to pursue academic careers, as well as increase their competitiveness for residency positions. Further, this allows for multiple attempts at residency

positions, as these may be sought at the conclusion of the MS portion and the PhD portion of the program.

The Medical Physics/Radiation Sciences program at UK has operated for over 40 years, is one of the longest standing programs in the country, and is nationally recognized for its emphasis on clinical training. There are only 47 CAMPEP-accredited graduate programs in the country and the UK program is the only one in the Commonwealth of Kentucky. Past program graduates have gone onto successful clinical careers throughout Kentucky and the US. Some have achieved nationally-recognized professional status including 3 AAPM presidents, 1 AAPM professional council chair, and 1 Chairman of the Board of CAMPEP. We expect that the addition of a PhD track will further enhance the stature and competitiveness of the program nationally, as we compete for high quality students with benchmark institutions such as MDAnderson, the University of Wisconsin and Duke University.

The field of Medical Physics is unique and there are no other programs at UK that provide training in this area. Further, the educational program is provided by the Departments of Radiation Medicine and Radiology, both of which are clinical departments within the UK Healthcare enterprise, thus providing a unique culture and context to the training. Research areas involve collaborative efforts between students, clinical physicists and physicians, and often possess direct clinical applicability. The collaborative nature of the program structure allows for didactic, clinical and research training in therapeutic and diagnostic medical physics.

We anticipate interest in the proposed PhD program to come from students who desire to enter a clinical career primarily, but who want to acquire the additional skills and credentials that accompany a PhD. Program content and accreditation standards require a strong undergraduate education in physics. Related disciplines, such as engineering and biology, are acceptable undergraduate preparation, if accompanied by physics remediation. Further, we expect that the proposed PhD program will allow us to attract students who otherwise would not apply or matriculate due to the current lack of a PhD option.

Comprehensive program description and complete curriculum

The proposed program will allow students to obtain a PhD in Medical Physics. The didactic coursework will consist primarily of shared coursework with our existing legacy MS program, with the addition of 6 variable credit hours of 600 level courses, and a 1 credit hour research seminar. Research will be conducted primarily under the mentorship of existing program faculty. Presently, 7 of whom possess PhDs. Research projects can be conducted using existing clinical equipment, combined with other readily available technical resources, including computer programming and simulations, and interdisciplinary collaborators.

The course requirements are listed below in Tables 1 and 2.

Table 1. Core course requirements for PhD in Medical Physics

Radiological Sciences (51.2205)						
Degree Program Core Courses (i.e., Courses required by ALL students in the Major--includes Premajor or Preprofessional courses)						
Course Prefix	**Course #**	**Course Title**	**Course Description**	**Type of Course: program core (C) or pre-major/ pre-professional (P)**	**Credit Hours**	**Existing (E) or New (N) Course**
RAS	546	Introduction to Medical Physics	The uses and dosimetric aspects of radiation in medicine will be analyzed, including many basic applications in the fields of diagnostic radiology physics, therapy physics, and nuclear medical physics. Prereq or concur: RM/PHY 472G or consent of instructor. (Same as PHY/RM 546.)	C	2	E
RAS	472 G	Interactions of Radiation with Matter	Basic aspects of the interaction of ionizing radiation with matter. Bohr atom, atomic spectra, radioactivity, energetics of decay. Sources of radiation, penetration of charged particles, electromagnetic radiation, and neutrons through matter; excitation and ionization processes; slected nuclear reactions; basic radiation detection and dosimetry. Prereq: PHY 213 or 232; MA 114 (may be taken concurrently); or equivalent. (Same as PHY/RM 472G.)	C	3	E
RM	740	Radiobiology	The physical and biological sequelae of radiation effects will be discussed emphasizing human and mammalian responses and radiation health. Emphasis will be for health and medical workers. Prereq: Consent of instructor; BIO/RM 540 or RM 546 or equivalent background. (Same as BIO 740.)	C	2	E
RAS	647	Physics of Medical Imaging 1	Specialized and advanced topics in diagnostic imaging, including modulation transfer function analysis, image processing algorithms, acceptance testing, CT, NMR, ultrasound, etc. Prereq: PHY/RM/RAS 546 or consent of instructor. (Same as RM 647.)	C	3	E
RAS	648	Physics of Medical Imaging 2	A continuation of RAS/RM 647. Specialized and advanced topics in nuclear medicine imaging physics, including positron emission tomographic procedures, emerging new modalities, and quality control. Prereq: RM/RAS 647 or consent of instructor. (Same as RM 648.)	C	3	E
RAS	601	Dosimetry Systems	Advanced aspects of the interaction of radiation with matter and specialized topics in the dosimetry of ionizing radiations. Modifications of Bragg-Gray theory for application to megavoltage sources. Beta dosimetry. Specialized calibration techniques. Relative response functions of various media. Nontraditional techniques. Dosimetry of radiation fields including complex spectra. Prereq: PHY 472G, RM 546, or equivalent. (Same as RM 601.)	C	2	E
RAS	649	Physics of Radiation Therapy	Specialized external beam and brachytherapy treatment planning; advanced Bragg-Gray cavity applications, including Ngas and TG- 21; calibration, acceptance testing, and quality control of therapy physics equipment. Prereq: RAS/RM/PHY 546 and RAS/RM 601, or consent of instructor. (Same as RM 649.)	C	3	E
RAS	695	Research in Medical Physics	Independent directed research on theoretical and practical problems in the health-related radiation sciences. May be repeated to a maximum of eight credits. Prereq: Graduate standing in one of the radiation-related sciences, plus consent of instructor. (Same as RM 695.)	C	4	E
RAS	651	Imaging Physics Laboratory	Specialized experiments involving the use, calibration, and quality control of x-ray and other diagnostic imaging equipment, and the appropriate use of radiation detectors in diagnostic physics measurements. Laboratory, approximately 30 hours per credit. May be repeated to a maximum of three credits. Prereq: RM/PHY 472G, RAS/RM 546; and concurrent: RAS/RM 647, or equivalent, plus	C	2	E
RAS	710	Special Topics in Medical Physics	Topics of current interest relating to radiation and its applications in the areas of radiological medical physics and health physics. May be repeated to a maximum of four credit hours with consent of instructor. Prereq: Graduate standing in a radiation-related science.	C	1	E
RAS	711	Research Methods in Medical Physics	This course will introduce the student to, and give them practical experience in, writing research proposals, research reports and carrying out research work. The course will be jointly taught vy various medical physics faculty and guest lecturers. Students will be asked to present their own work to be critiqued by the class. The goal is to give the student a hands-on experience of what is involved in doing funded clinical research on human subjects and getting it published in an academic journal.	C	1	N
RAS	767	Post Qualifier Residency (research)	Registration for this course recognizes that the student is conducting research toward fulfillment of their thesis requirements.	C	4	N
RAS	545	Radiation Hazards and Protection	An analysis of common radiation hazards encountered in medicine, research, industry, and the environment. Regulations and procedures for the safe use of ionizing and nonionizing radiations. Prereq: PHY/RM 472G or consent of instructor. (Same as PHY/RM 545.)	C	3	E
			Total Credit hours Required for Program Core (i.e., # of hours in degree program core) **Note: number recorded will automatically populate Core Hours in "Summary of Total Program Hours" table**		**33**	**NA**

Table 2. Course electives for PhD in Medical Physics

GUIDED Elective Courses (i.e., Specified list of Program Electives AND/OR Electives focused on a specific track/concentration/or speciality) (if applicable)						
Course Prefix	Course #	Course Title	Course Description	Course Required for Program (P), Track (T), Concentration (C) or Specialty (S)	Credit Hours	Existing (E) or New (N) Course
RAS	650	Physics of Brachytherapy	A presentation of the full scope of use of implanted radiation sources for medical purposes. The course includes consideration of all aspects of brachytherapy dosimetry and treatment planning as well as modern and cutting-edge brachytherapy clinical practice. Characteristics of interstitial, intracavitary, and intraluminal implants, as well as remote afterloaders, are considered. Prereq: RAS/RM/ PHY 546; RM/PHY 472G; RAS/RM 649 (may be co-requisite). (Same as RM 650.)	P	0- 2	E
RAS	695	Research in Medical Physics	Independent directed research on theoretical and practical problems in the health-related radiation sciences. May be repeated to a maximum of eight credits. Prereq: Graduate standing in one of the radiation-related sciences, plus consent of instructor. (Same as RM 695.)	P	0-12	E
RM or RAD	660	Clinical Practicum	Clinical Practicum		0-6	N
Variable		Related science/engineering/medicine Focus area courses 300/400 level or higher		P	6-18	E
# of REQUIRED Credit hours in Guided Electives (i.e., electives for a focused or track/concentration/speciality are). If 9 hours is required and there are 15 hours to choose from, then only 9 hours are required) Note: number recorded will automatically populate Guided Elective hours in "Summary of Total Program Hours" table					18	NA

It is instructive to understand the training environment into which the PhD program will be embedded. A large number of Medical Physicists practice in a clinical setting, and provision of clinical training is what our program has always excelled at. The Department of Radiation Medicine offers a 2 year, accredited Medical Physics Residency program. These residency positions are filled with graduates of our MS graduate program. Presently, there are 2 such positions per year, for a total cohort of 4 Medical Physics residents. Graduation from a CAMPEP-accredited residency program is absolutely essential in order to be able to proceed into clinical practice as a Medical Physicist.

The proposed PhD program is designed to allow for the option of training clinician/investigators. As such, the third year may be spent completing what is now primarily the first year of our Medical Physics Residency. This consists of 4 rotations, each lasting 3 months in duration. Three of these rotations constitute clinical training/service and one is research-oriented. The research rotation will serve towards the research requirement of the PhD degree.

The student must orally defend a proposal for the selected dissertation topic. This oral defense constitutes part 2 of the qualifying exam. The proposal defense will be delivered to the student's dissertation advisory committee, typically by the end of the third year. Following the third year, the student will focus on the selected research topic. Progress will be monitored annually by the student's dissertation advisory committee. The PhD will be granted following completion of an acceptable dissertation and defense following standard University of Kentucky procedures and guidelines.

Resources (Available):

The majority of required resources for the PhD in Medical Physics already exist. The didactic coursework is provided presently to our Masters students and the PhD track is not expected to have a significant impact on the workload associated with these existing courses. One additional course will be offered through the Radiation Sciences program (711, Research Methods in Medical Physics). This is a one credit hour course and will be absorbed by existing program faculty. The Radiation Sciences program is currently housed in the Department of Radiation Medicine and supported collaboratively by the Department of Radiology, within the College of Medicine. The program is supported by the Program Director (J. Molloy), Director of Graduate Studies (L. E. Johnson) and a full-time Administrative Assistant. Coursework, research and clinical mentoring are provided by program faculty, which includes 7 in the Department of Radiation Medicine, 2 in the Department of Radiology, and one contract faculty member. Of this faculty, 7 possess PhDs and are qualified to serve as research mentors. The 9 full-time program faculty members have primary clinical appointments in either Radiation Medicine or Radiology. Their distribution of effort directed towards clinical service ranges from 50% - 90%.

Existing research resources include clinical equipment, computers, desk space and faculty mentors. Clinical equipment includes large scale clinical devices such as state-of-the-art linear accelerators (4), a Gamma Knife Stereotactic Radiosurgery unit, computerized treatment simulation systems, and numerous imaging devices including Computed Tomography, Magnetic Resonance Imaging, Ultrasound, Nuclear Medicine and Positron Emission Tomography scanners. Small-scale equipment includes radiation measuring devices such as ion-chamber and diode arrays, geometric and anthropomorphic test phantoms, and other various radiation measuring systems such as ionization chambers, Geiger counters, thermoluminescent dosimeters, radiochromic film and diode dosimetry systems.

The Radiation Sciences program provides a student workroom with seating for up to 14 students simultaneously, an ancillary work area with room for 4 students, and 14 computer workstations. In addition, a full-scale, server-based treatment simulation system is available for academic, non-clinical use. A Monte-Carlo-based radiation transport computer system is available. An array of generally available academic software is routinely used in the program, including Matlab, MCNP and EGSnrc Monte Carlo simulations, C++ and the Microsoft Office suite of programs including Excel, Access and Word.

Resources (Needed):

- To recruit one research-oriented faculty member – *(already approved and recruited as of 11/2016)*
- To convert existing residency pay scale to graduate assistantship level
- Per table:

- 6 GAs in residency (split between first and second year residents)
- 4 TAs in PhD in program 4th year (research 100%, TA)
- 4 RAs in PhD (research 100%)

Table 3 Expenses: Required, incremental resources/expenses for PhD in Medical Physics

Resource	Annual incremental expense ($)	Comment
Additional faculty member	**195,000**	(salary and benefits)
6 Graduate Assistants/first year residents	**195,000**	25,000 stipend + benefits x 6
4 Teaching Assistantships	**130,000**	25,000 stipend + benefits x 4
4 Research Assistantships	**130,000**	25,000 stipend + benefits x 4
Total	**650,000**	

Table 4 Revenue: Estimated incremental resources/revenue for PhD in Medical Physics

Resource	Annual incremental revenue ($)	Comment
Additional faculty member	**20,000**	Sponsored research
Reclassification of 4 existing residency positions (2 first year, 2 second year)	**260,000**	50,000 stipend + benefits x 4
4 Teaching Assistantships	**253,000**	1.5 FTE reduction in faculty DOE at $130,000/year plus benefits
4 additional students per year x 2 year MS	**140,000**	Tuition revenue increase (2 in-state, 2 out-of-state per year). ½ in-state. Can be accommodated via

program		lab-based training enabled by Teaching Assistants
Total	**673,000**	

The training, funding and experience for the Medical Physics Educational programs (both Graduate and Residency) possess didactic, clinical and research components. As such, it is advantageous to students, faculty and the UK Enterprise, to enlist the trainees in clinical training and service. This yields a funding mechanism in addition to the traditional teaching and research assistantships offered in non-clinical programs. The graduate assistantships included in Tables 3 and 4 are payment for clinical service and training obtained during what is now structured as our Medical Physics residency.

One of the benefits of the new proposed structure is that it allows for some redistribution of the existing instructional effort away from senior level medical physics faculty onto teaching assistants. The four teaching assistantships required will mainly provide laboratory-based instruction for the early components of our clinical practicum as well as our laboratory-based RAS 545, Radiation Hazards and Protection. An associated benefit of this structure is that it allows for program expansion. Presently, the majority of clinical training in the master's program is provided by faculty physicists in a live clinical setting. By shifting much of the early instruction into off-line tutorials assisted by recent MS program graduates (i.e, PhD candidates), our existing MS program will be able to accommodate additional student capacity and thus yield the associated tuition revenue increases that are included in Table 4. We expect that part of this MS program expansion will derive from our new affiliation with Jilin University in Changchun China. The budget assumes an additional 2 students per year in the program based on this affiliation, although we anticipate that it could be up to 7 additional students per year.

Course descriptions and bulletin information

RADIATION and RADIOLOGICAL SCIENCES PhD

Medical Physics is a profession that includes clinical, industrial and academic practices. The Radiation and Radiological Sciences PhD program is designed primarily for students who desire to enter a clinical career, but who want to acquire the additional skills and credentials that accompany a PhD.

This educational program is provided by the Departments of Radiation Medicine and Radiology, both of which are clinical departments within the UK Healthcare enterprise, thus providing a unique culture and context to the training. Research areas involve collaborative efforts between students, clinical physicists and physicians, and often possess direct clinical applicability. The collaborative nature of the program structure allows for didactic, clinical and research training in therapeutic and diagnostic medical physics.

The didactic coursework consists of a core of 33 credit hours, with an additional 18 hours of guided electives. Research will be conducted primarily under the mentorship of faculty in the Radiation Medicine or Radiology Departments. Research projects can be conducted using clinical equipment, combined with other available technical resources, including computer programming and simulations, and interdisciplinary collaborations.

Admission Requirements

In addition to the general requirements of the Graduate School, the Radiation and Radiological Sciences Program requires the following. At a minimum, candidates must show the equivalence of a minor in physics. To meet this requirement, candidates must have completed the following: 1) Calculus through Ordinary Differential Equations; 2) The Calculus-based introductory General Physics sequence with labs (2 semesters); and 3) Three upper division Physics electives (300 level or above). Courses in Human Anatomy, Physiology, Computer Science, and Scientific Statistics are preferred but, if missing, may be incorporated into the graduate program at the discretion of the Director of Graduate Studies.

Most of our entering students possess undergraduate physics degrees, although students possessing related physical science backgrounds are eligible and qualified. These students are counseled prior to their arrival of the need to comply with the entrance requirements. Most students have some missing prerequisites that are remediated in their first year. These most typically include anatomy, physiology, and sometimes include an upper level physics course. The deficiencies described above are remediated via formal, coursework. These courses are almost exclusively taken here at the University, although may be completed via coursework at another accredited college.

Retention: Students must maintain at least a 3.0 G.P.A for retention in the program. A student's progress will be reviewed annually by their graduate committee and any deficiencies or concerns identified will be followed up with the student.

Completion: Student will be required to pass their masters oral exam, two components of the qualifying exam and successful defense of the dissertation.

Application Information

Application to the program is online through the Graduate School using the link http://www.gradschool.uky.edu/ProspectiveStudents/prospective.html . The applicant will be required to submit GRE General Test scores, transcripts for all undergraduate work, and three letters of recommendation. Only self-reported, unofficial General GRE scores and transcripts are required at the time of application. Official versions must be submitted upon entry into the program. A personal statement and/or a CV may be included but are not required. A personal interview, typically on-campus, is required. However, on-line interviews may be allowed in cases of severe travel restrictions. Fluent spoken English skills are required and are assessed during the interview.

Admission to the program occurs once annually with new classes beginning in the Fall semester. The deadline for applications is April 30th, however, offers for admission are usually made early in the preceding Spring semester with completion of the class roster by May. Therefore, it is recommended that applications be completed by January 31 to assure full consideration.

Degree Requirements

A minimum of 51 credit hours are required. These include 36 hours of pre-qualifying residency and 4 hours of post- qualifying residency. The elective credit hours (18) must include at least 6 credit hours of graduate level (i.e., 4xxG, 5xx, 6xx or 7xx) didactic coursework covering related topics in science, engineering, or medicine. These credits must be approved by the student's dissertation advisor. The intent of this requirement is to encourage interdisciplinary collaboration and to develop rigorous scientific skills. The selection of the specific courses is variable. The remaining 12 elective credit hours may be fulfilled by any combination obtained from the list of "Course electives for PhD in Radiation and Radiological Sciences" below.

The qualifying exam will consist of two major components, one written and one oral. Students must pass both to be allowed to progress in the PhD program. The written exam will be a problem-based exam consisting of 4 parts. These are:

- Radiological Physics and Dosimetry

- Physics of Medical Imaging
- Physics of Radiation Therapy
- Elective topic (select one)
    - Advanced Radiation Therapy Physics
    - Advanced Medical Imaging Physics
    - Other advanced topic approved in advance by the student's dissertation

Advisory Committee: The written exam will be taken in the second year of the program and a score of 50% or greater will be required in order to pass. Students who do not pass on the first attempt will be allowed a second attempt. If the second attempt is unsuccessful then the student will not be allowed to proceed in the PhD program. Such students will, however, be allowed to attempt to complete the degree requirements for an MS degree in Radiation Sciences and be awarded that degree upon successful completion.

The oral exam will be taken after successful completion of the written exam, but typically not to exceed 3 years from the initial date of enrollment. The student must orally defend a proposal for the selected dissertation topic. The proposal defense will be delivered to the student's dissertation advisory committee.

Core courses for PhD in Radiation and Radiological Sciences

Radiological Sciences (51.2205)						
Degree Program Core Courses (i.e., Courses required by ALL students in the Major--includes Premajor or Preprofessional courses)						
Course Prefix	Course #	Course Title	Course Description	Type of Course: program core (C) or pre-major/ pre-professional (P)	Credit Hours	Existing (E) or New (N) Course
RAS	546	Introduction to Medical Physics	The uses and dosimetric aspects of radiation in medicine will be analyzed, including many basic applications in the fields of diagnostic radiology physics, therapy physics, and nuclear medical physics. Prereq: or concur: RM/PHY 472G or consent of instructor. (Same as PHY/RM 546.)	C	2	E
RAS	472G	Interactions of Radiation with Matter	Basic aspects of the interaction of ionizing radiation with matter. Bohr atom, atomic spectra, radioactivity, energetics of decay. Sources of radiation, penetration of charged particles, electromagnetic radiation, and neutrons through matter; excitation and ionization processes; elected nuclear reactions; basic radiation detection and dosimetry. Prereq: PHY 213 or 232; MA 114 (may be taken concurrently); or equivalent. (Same as PHY/RM 472G.)	C	3	E
RM	740	Radiobiology	The physical and biological sequelae of radiation effects will be discussed emphasizing human and mammalian responses and radiation health. Emphasis will be for health and medical workers. Prereq: Consent of instructor; BIO/RM 540 or RM 546 or equivalent background. (Same as BIO 740.)	C	2	E
RAS	647	Physics of Medical Imaging 1	Specialized and advanced topics in diagnostic imaging, including modulation transfer function analysis, image processing algorithms, acceptance testing, CT, NMR, ultrasound, etc. Prereq: PHY/RM/RAS 546 or consent of instructor. (Same as RM 647.)	C	3	E
RAS	648	Physics of Medical Imaging 2	A continuation of RAS/RM 647. Specialized and advanced topics in nuclear medicine imaging physics, including positron emission tomographic procedures, emerging new modalities, and quality control. Prereq: RM/RAS 647 or consent of instructor. (Same as RM 648.)	C	3	E
RAS	601	Dosimetry Systems	Advanced aspects of the interaction of radiation with matter and specialized topics in the dosimetry of ionizing radiations. Modifications of Bragg-Gray theory for application to megavoltage sources. Beta dosimetry. Specialized calibration techniques. Relative response functions of various media. Non traditional techniques. Dosimetry of radiation fields including complex spectra. Prereq: PHY 472G, RM 546, or equivalent. (Same as RM 601.)	C	2	E
RAS	649	Physics of Radiation Therapy	Specialized external beam and brachytherapy treatment planning; advanced Bragg-Gray cavity applications, including Nguard TG- 21; calibration, acceptance testing, and quality control of therapy physics equipment. Prereq: RAS/RM/PHY 546 and RAS/RM 601, or consent of instructor. (Same as RM 649.)	C	3	E
RAS	695	Research in Medical Physics	Independent directed research on theoretical and practical problems in the health-related radiation sciences. May be repeated to a maximum of eight credits. Prereq: Graduate standing in one of the radiation-related sciences, plus consent of instructor. (Same as RM 695.)	C	4	E
RAS	651	Imaging Physics Laboratory	Specialized experiments involving the use, calibration, and quality control of x-ray and other diagnostic imaging equipment, and the appropriate use of radiation detectors in diagnostic physics measurements. Laboratory, approximately 30 hours per credit. May be repeated to a maximum of three credits. Prereq: RM/PHY 472G, RAS/RM 546; and concurrent: RAS/RM 647, or equivalent, plus	C	2	E
RAS	710	Special Topics in Medical Physics	Topics of current interest relating to radiation and its applications in the areas of radiological medical physics and health physics. May be repeated to a maximum of four credit hours with consent of instructor. Prereq: Graduate standing in a radiation-related science.	C	1	E
RAS	711	Research Methods in Medical Physics	This course will introduce the student to, and give them practical experience in, writing research proposals, research reports and carrying out research work. The course will be jointly taught vy various medical physics faculty and guest lecturers. Students will be asked to present their own work to be critiqued by the class. The goal is to give the student a hands-on experience of what is involved in doing funded clinical research on human subjects and getting it published in an academic journal.	C	1	N
RAS	767	Post Qualifier Residency (research)	Registration for this course recognizes that the student is conducting research toward fulfillment of their thesis requirements.	C	4	N
RAS	545	Radiation Hazards and Protection	An analysis of common radiation hazards encountered in medicine, research, industry, and the environment. Regulations and procedures for the safe use of ionizing and nonionizing radiations. Prereq: PHY/RM 472G or consent of instructor. (Same as PHY/RM 545.)	C	3	E
			Total Credit hours Required for Program Core (i.e., # of hours in degree program core) Note: number recorded will automatically populate Core Hours in "Summary of Total Program Hours" table		33	NA

Course electives for PhD in Radiation and Radiological Sciences

GUIDED Elective Courses (i.e., Specified list of Program Electives AND/OR Electives focused on a specific track/concentration/or speciality) (if applicable)						
Course Prefix	Course #	Course Title	Course Description	Course Required for Program (P), Track (T), Concentration (C) or Specialty (S)	Credit Hours	Existing (E) or New (N) Course
RAS	650	Physics of Brachytherapy	A presentation of the full scope of use of implanted radiation sources for medical purposes. The course includes consideration of all aspects of brachytherapy dosimetry and treatment planning as well as modern and cutting-edge brachytherapy clinical practice. Characteristics of interstitial, intracavitary, and intraluminal implants, as well as remote afterloaders, are considered. Prereq: RAS/RM/ PHY 546; RM/PHY 472G; RAS/RM 649 (may be co-requisite). (Same as RM 650.)	P	0- 2	E
RAS	695	Research in Medical Physics	Independent directed research on theoretical and practical problems in the health-related radiation sciences. May be repeated to a maximum of eight credits. Prereq: Graduate standing in one of the radiation-related sciences, plus consent of instructor. (Same as RM 695.)	P	0-12	E
RM or RAD	660	Clinical Practicum	Clinical Practicum		0-6	N
Variable		Related science/engineering/medicine Focus area courses 300/400 level or higher		P	6-18	E
			# of REQUIRED Credit hours in Guided Electives (i.e., electives for a focused or track/concentration/speciality are). If 9 hours is required and there are 15 hours to choose from, then only 9 hours are required) Note: number recorded will automatically populate Guided Elective hours in "Summary of Total Program Hours" table		18	NA

Course descriptions:

RM 472G INTERACTIONS OF RADIATION WITH MATTER. (3)

Basic aspects of the interaction of ionizing radiation with matter. Bohr atom, atomic spectra, radioactivity, energetics of decay. Sources of radiation, penetration of charged particles, electromagnetic radiation, and neutrons through matter; excitation and ionization processes; selected nuclear reactions; basic radiation detection and dosimetry. Prereq: PHY 213 or 232; MA 114 (may be taken concurrently); or equivalent. (Same as PHY/RM 472G.)

RAS 545 RADIATION HAZARDS AND PROTECTION. (3)

An analysis of common radiation hazards encountered in medicine, research, industry, and the environment. Regulations and procedures for the safe use of ionizing and nonionizing radiations. Lecture, two hours; laboratory, two and one-half hours. Prereq: PHY/RM 472G or consent of instructor. (Same as PHY/RM 545.)

RAS 546 GENERAL MEDICAL RADIOLOGICAL PHYSICS. (3)

The uses and dosimetric aspects of radiation in medicine will be analyzed, including many basic applications in the fields of diagnostic radiology physics, therapy physics, and nuclear medical physics. Prereq or concur: RM/PHY 472G or consent of instructor. (Same as PHY/RM 546.)

RAS 601 ADVANCED RADIATION DOSIMETRY. (2)

Advanced aspects of the interaction of radiation with matter and specialized topics in the dosimetry of ionizing radiations. Modifications of Bragg-Gray theory for application to megavoltage sources. Beta dosimetry. Specialized calibration techniques. Relative response functions of various media. Nontraditional techniques. Dosimetry of radiation fields including complex spectra. Prereq: PHY 472G, RM 546, or equivalent. (Same as RM 601.)

RAS 647 PHYSICS OF DIAGNOSTIC IMAGING I. (3)

Specialized and advanced topics in diagnostic imaging, including modulation transfer function analysis, image processing algorithms, acceptance testing, CT, NMR, ultrasound, etc. Prereq: PHY/RM/RAS 546 or consent of instructor. (Same as RM 647.)

RAS 648 PHYSICS OF DIAGNOSTIC IMAGING II. (3)

A continuation of RAS/RM 647. Specialized and advanced topics in nuclear medicine imaging physics, including positron emission tomographic procedures, emerging new modalities, and quality control. Prereq: RM/RAS 647 or consent of instructor. (Same as RM 648.)

RAS 649 PHYSICS OF RADIATION THERAPY. (3)

Specialized external beam and brachytherapy treatment planning; advanced Bragg-Gray cavity applications, including Ngas and TG- 21; calibration, acceptance testing, and quality control of therapy physics equipment. Prereq: RAS/RM/PHY 546 and RAS/RM 601, or consent of instructor. (Same as RM 649.)

RAS 650 PHYSICS OF RADIATION THERAPY II: BRACHYTHERAPY PHYSICS. (2)

A presentation of the full scope of use of implanted radiation sources for medical purposes. The course includes consideration of all aspects of brachytherapy dosimetry and treatment planning as well as modern and cutting-edge brachytherapy clinical practice. Characteristics of interstitial, intracavitary, and intraluminal implants, as well as remote afterloaders, are considered. Prereq: RAS/RM/ PHY 546; RM/PHY 472G; RAS/RM 649 (may be co-requisite). (Same as RM 650.)

RAS 651 ADVANCED LABORATORY IN DIAGNOSTIC IMAGING PHYSICS. (1-3)

Specialized experiments involving the use, calibration, and quality control of x-ray and other diagnostic imaging equipment, and the appropriate use of radiation detectors in diagnostic physics measurements. Laboratory, approximately 30 hours per credit. May be repeated to a maximum of three credits. Prereq: RM/PHY 472G, RAS/RM 546; and concurrent: RAS/RM 647, or equivalent, plus standing in the radiation science program.

RM 660 GRADUATE PRACTICUM IN RADIATION MEDICINE. (1-6)

Applied field work at the graduate level in the sciences relating to radiation medicine. May be repeated to a maximum of six credits. Prereq: Graduate standing in a radiation-related science, plus consent of instructor.

RAS 695 RESEARCH IN THE HEALTH-RELATED RADIATION SCIENCES. (1-4)

Independent directed research on theoretical and practical problems in the health-related radiation sciences. May be repeated to a maximum of eight credits. Prereq: Graduate standing in one of the radiation-related sciences, plus consent of instructor. (Same as RM 695.)

RAS 710 RADIATION SCIENCE SEMINAR (1)

Topics of current interest relating to radiation and its applications in the areas of radiological medical physics and health physics. May be repeated to a maximum of four credit hours with consent of instructor. Prereq: Graduate standing in a radiation-related science.

RAS 711 RESEARCH METHODS IN MEDICAL PHYSICS (1)

This course will introduce the student to, and give them practical experience in, writing research proposals, research reports and carrying out research work. The course will be jointly taught by various

medical physics faculty and guest lecturers. Students will be asked to present their own work to be critiqued by the class. The goal is to give the student a hands-on experience of what is involved in doing funded clinical research on human subjects and getting it published in an academic journal.

RM 740 MAMMALIAN RADIATION BIOLOGY. (2)

The physical and biological sequelae of radiation effects will be discussed emphasizing human and mammalian responses and radiation health. Emphasis will be for health and medical workers. Prereq: Consent of instructor; BIO/RM 540 or RM 546 or equivalent background. (Same as BIO 740.)

RM 842 RADIATION ONCOLOGY. (1)

Use of radiation therapy in clinical treatment of malignancy. Staging, histology, spread, treatment techniques, acute and late effects of radiation therapy. Prereq: RM 740 and an introductory anatomy course, or equivalent, and consent of instructor

RAS 849 RADIATION SCIENCES PRACTICUM. (1-6)

Applied practicum experiences in the radiation sciences. Laboratory, 40 hours per week equals one credit hour. Prereq: Advanced graduate standing in radiation sciences.

Dear Brian and Margaret,

As we agreed in our meeting on November 4, 2016, I am writing to summarize the consensus that we reached regarding the establishment of a PhD program in Radiation and Radiological Sciences. Documentation already submitted describes that the program will consist of 33 credit hours of core course requirements and a minimum of 18 credit hours of guided electives.

Admission and retention requirements are described in other documents previously submitted. However, further clarification is provided regarding three entrance and progression pathways through the program. These are summarized below*.

Traditional PhD: Students who complete this pathway will enter the program and be required to complete all didactic coursework, examinations and research as described in the program proposal. This includes 33 credit hours of core coursework, at least 18 credit hours of guided electives, both parts of the qualifying exam and successful defense of a dissertation. A subset of these requirements will be considered sufficient to have earned an MS degree 'en passant'. These are listed in the attached table. We formally request that this 'en passant' option be included in the PhD program application.

Legacy MS into PhD: Here we use the term 'legacy MS' in reference to the existing MS program in Radiation Sciences. This program currently falls under the non-thesis, plan B option and offers a terminal MS degree. In this proposed pathway into the PhD program, students will enroll in our legacy MS program with the expectation that they will use the first 2 semesters to consider whether to remain in the terminal MS program, (which is typically completed in 2 years), or to transfer to the PhD program. Note that the didactic course work in the first year of both programs is identical, and indeed these courses will be shared between the two programs. Students who choose to transfer to the PhD program must declare their intent no later than the end of the first spring semester. This request to transfer will be reviewed by the Program Director and Director of Graduate Studies, with input sought from relevant faculty. If the transfer is approved, the relevant course work accrued thus far will be counted towards the PhD course requirements. Progression in the PhD program will then be subject to the student's satisfactory completion of degree requirements as described elsewhere in the program documentation.

Other MS degree holder into PhD: Circumstances may arise in which applicants to the PhD program already possess a graduate degree, either in Medical Physics or a related science or engineering. In such circumstances, as per existing UK Graduate School policy, up to 18 credit hours from the previous degree may be used towards course credit in the PhD program. Such courses will be reviewed on a case-by-case basis by the Program Director and/or Director of Graduate Studies to determine their equivalence to any of the core course requirements of the PhD program.

** The nomenclature used to differentiate the programs is informal and should not be taken to imply adherence to any formal structures that may possess similar descriptions.*

Typical progression pathways for students in Radiation and Radiological Sciences PhD program

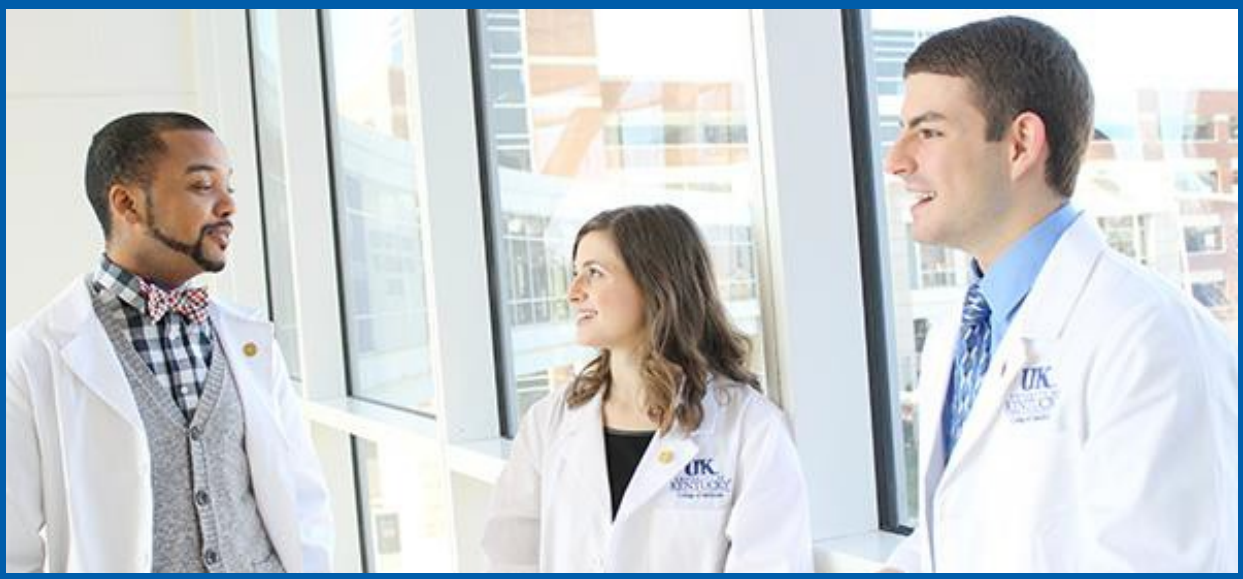
Semester	Course title or Activity	Course number	Credits	Core requirement PhD	Required for en-passant MS	Required for legacy MS	Total credit hours accrued	Comments
Fall 1	Introduction to Medical Physics	RAS 546	2	Y	Y	Y		
	Interactions of Radiation with Matter	RAS 472 G	3	Y	Y	Y		
	Radiobiology	RM 740	2	Y	Y	Y		
	Clinical Practicum	RM 660	1	N	N	N		Commonly taken and encouraged
	Other (variable, missing prerequisites)			N	N	N		
							8	
Spring 1	Physics of Medical Imaging 1	RAS 647	3	Y	Y	Y		
	Physics of Radiation Therapy	RAS 649	3	Y	Y	Y		
	Dosimetry Systems	RAS 601	2	Y	Y	Y		
	Clinical Practicum	RM 660	1	N	N	N		Commonly taken and encouraged
	Radiation Oncology	RM 842	na	N	N	N		Commonly taken and encouraged
	Deadline for students in legacy MS program to declare shift to PhD program						17	
Summer 1	Research in Medical Physics	RAS 695	1-2	Y	Y	Y		Legacy MS requires 2 total (min), PhD requires 4 total (min)
	Clinical Practicum	RM 660	1	N	N	N		Commonly taken and encouraged
							19	
Fall 2	Imaging Physics Laboratory	RAS 651	2	Y	Y	Y		
	Physics of Medical Imaging 2	RAS 648	3	Y	Y	Y		
	Research in Medical Physics	RAS 695	1-2	Y	Y	Y		Legacy MS requires 2 total (min), PhD requires 4 total (min)
	Clinical Practicum	RM 660	1	N	N	N		Commonly taken and encouraged
	Special Topics in Medical Physics	RAS 710	1	Y	Y	N		Commonly taken and encouraged
	Physics of Brachytherapy	RAS 650	2	N	N	N		Commonly taken and encouraged
	Qualifying exam, part 1, written		*0*	*Y*	*N*	*N*		*Requirement for progression in PhD program*
							29	
Spring 2	Research Methods in Medical Physics	RAS 711	1	Y	N	N		
	Radiation Hazards and Protection	RAS 545	3	Y	Y	Y		
	Clinical Practicum	RM 660	1	N	N	N		Commonly taken and encouraged
	Research in Medical Physics	RAS 695	1-2	Y	Y	Y		Legacy MS requires 2 total (min), PhD requires 4 total (min)
	Related science/engineering/medicine Focus area courses 300/400 level or higher	Variable	0-6	Y	N	N		Accrues to the 18 credit hours of guided electives for PhD program
	Final comprehensive oral exam		*0*	*Y*	*Y*	*Y*		*Same as exam used for legacy MS program*
	MS awarded 'en-passant'							
							38	
Summer 2	Related science/engineering/medicine Focus area courses 300/400 level or higher	Variable	0-6	Y	N	N		Accrues to the 18 credit hours of guided electives for PhD program
	Research in Medical Physics	RAS 695	1-2	N	NA	NA		Accrues to the 18 credit hours of guided electives for PhD program
							42	
Fall 3	Related science/engineering/medicine Focus area courses 300/400 level or higher	Variable	0-6	Y	N	N		Accrues to the 18 credit hours of guided electives for PhD program
	Research in Medical Physics	RAS 695	1-2	N	NA	NA		Accrues to the 18 credit hours of guided electives for PhD program
	Qualifying exam, part 2, oral research proposal defense						47	
Spring 3	Post qualifier residency	RAS 767	2	Y	NA	NA		As required by UK/Graduate School policy
Fall 4 and onward	Post qualifier residency	RAS 767	2	Y	NA	NA	51	As required by UK/Graduate School policy
Variable	Dissertation Defense		variable					2 credits per S and F semesters per UK policy
	PhD awarded							

RADIATION MEDICINE AND RADIOLOGY, PHD
PROGRAM ASSESSMENT PLAN

09.21.2015

Prepared By: Drs. Molloy, Hardy, Luo & Ms. Rachel Pendleton

UNIVERSITY OF KENTUCKY



1. Introduction

1.1. Mission Statement

The Medical Physics Ph.D. program of the Departments of Radiation Medicine and Radiology is dedicated to training students to become clinical Medical physicists who are able to work as a clinician, a teacher and an independent investigator carrying out basic clinical, and/or translational research.

1.2. Basic Assessment Approach

Students will be assessed for learning outcomes by select program faculty or graduate committees. Student scores and evaluations will be compiled at the direction of the Program Director who, along with appropriate program faculty, will use the statistics for program review as outlined below. Recommendations on program improvement will be formulated based on the program review and taken to the full faculty for discussion and implementation. This report, including recommendations, then goes to the Office of University Assessment, where it will be evaluated by the University Assessment Council (UAC) and then the UAC liaison will facilitate communication between UAC and the Ph.D. program faculty.

2. Assessment Oversight, Resources

2.1. College Learning Outcomes Assessment Coordinator – Lana Spicer & Dr. Terry Stratton

2.2. Unit Assessment Coordinator – Drs. Malloy & Hardy

3. Program-Level Learning Outcomes

3.1. To prepare successful independent investigators, teachers, and/or clinicians, the program aims to instruct students so that they will:

a) Demonstrate a mastery of the fundamental principles of Medical Physics
   i. Raphex exam, yearly
   ii. ABR Part 1 exam, 1st year
   iii. Written qualifying exam,
   iv. Final MS oral

b) Identify problems, formulate new hypothesis about their cause and solve them through research in order to contribute new ideas and knowledge to the field of Medical Physics.
   i. Oral qualifying / thesis proposal defense
   ii. Final PhD oral defense
   iii. Annual student committee evaluation,
   iv. Papers / presentations at conferences

c) Communicate technical concepts in Medical Physics orally and in writing
   i. Final MS oral
   ii. Oral qualifying / thesis proposal defense
   iii. Final PhD oral defense
   iv. Other oral presentations, e.g. journal clubs,
   v. Papers / presentations at conferences

The Medical Physics Ph.D. curriculum is designed to allow flexibility in the choice of course work depending on an individual's research interests while providing a common knowledge base on which students will achieve the desired learning outcomes.

4. Curriculum Map

Learning outcome	**RAS546** *Intro to Med Radiological Physics* **RM472G** *Interaction of Radiation with Matter,* **RM740** *Mammalian Radiation Biology*	**RAS 647 , 648** *Physics of Diagnostic Imaging I, II* **RAS 649** *Physics of Radiation Therapy* **RAS 651** *Lab in Diagnostic Imaging*	**RM 601** *Advance Radiation Dosimetry* **RAS 649** *Physics of Radiation Therapy* **RM 650** *Brachytherapy Physics* **RM 842** *Radiation Oncology*	**RAS 695** *Research* **RM 660** *Practicum in Radiation Therapy* **RAS545** *Radiation Hazards and Protection*	**RAS 710** *Student Seminar*	**RAS 711** *Research Methods in Medical Physics*	**RAS 767** *Dissertation Research*
Demonstrate a mastery of the fundamental principles of Medical Physics	I	I,R	I,R	E	E,A	E,A	A
Research Identify problems, formulate new hypothesis about their cause and solve them through research in order to contribute new ideas and knowledge to the field of medical physics.	I	I	I	R,E	E,A	E,A	A
Communicate technical concepts in medical physics both orally and in writing	I	I,R	I,R	R,E	E	E	A

I- outcome introduced
R- outcome reinforced
E- outcome emphasized
A-outcome applied

Assessment for student growth (e.g. Raphex) test as taken yearly and will demonstrate growth.

-

1. Baseline information will be acquired from students taking RAS 695, RAS710 and RAS711 for the first time using the attached rubrics. These data will be tabulated for each student and statistically analyzed for the entire class. This baseline information will encompass learning outcomes 1 -3.
2. Performance on every oral presentation (e.g. journal club), seminar presentation and oral exams will be used to assess learning outcome 3.
3. Students will be assessed yearly according to approved rubrics for quality of oral presentations given in RAS 695, RAS710 and RAS 711. An assessment of the presentations of the 2nd year students will be considered as a baseline and compared to the performance of these students during the 4th year in order to assess learning outcomes 1-3 over a two year period. Each student's oral presentation is judged by the Medical Physics faculty in attendance of these seminars.
4. All students will be evaluated by their Graduate advisory committees for learning outcomes 1, 2, and 3 during the written and oral qualifying exams and again at the final dissertation exam. The same rubric will be applied to these exams to compare improvement during the post-qualifying training period.

5. Assessment Methods and Measures (Formative and Summative recommended)

5.1. Direct Methods

5.1.1. Raphex exam, take yearly by all students.
5.1.2. ABR Part 1 exam, 1st year

5.1.3. Written qualifying exam,
5.1.4. Final MS oral exam.
5.1.5. Oral qualifying / thesis proposal defense
5.1.6. Final PhD oral defense
5.1.7. Other oral presentations, e.g. journal clubs,
5.1.8. Annual student committee evaluation,
5.1.9. Dissertation

5.2. **Indirect Methods**

5.2.1. The Number of manuscripts accepted in peer-reviewed journals for each year's student cohort will be tallied every 2 years. This is an indirect measure of learning outcomes 1, 2 and 3.

5.2.2. The Number of presentations at local, regional, national, and international conferences will be tallied for each year's cohort every 2 years. This is an indirect measure of learning outcomes 2 and 3.

5.2.3. Student graduation rates and time to graduation will be evaluated every year. These are indirect measures of learning outcomes 1, 2 and 3.

6. Data Collection and Review

6.1. Data Collection Process/Procedures

6.1.1. Students will be assessed at the following points. Data will be collected on an ongoing basis and reported annually.

	OUTCOMES			
	Demonstrate a mastery of the fundamental principles of Medical Physics	Identify problems, formulate new hypothesis about their cause and solve problems through research in order to contribute new ideas and knowledge to the field of medical physics.	Communicate technical concepts in medical physics both orally and in writing	
Raphex Exam	1st and 2nd years			
ABR Part 1 Exam	1st and 2nd years			
Oral presentation (Student Seminar)	2nd and 4th years		2nd and 4th years	
Written Qualifying exam	End of 2nd year	End of 2nd year	End of 2nd year	
Oral Proposal Defense	End of 3rd Year	End of 3rd year	End of 3rd year	
Final exam	Thesis defense	Thesis defense	Thesis defense	

6.1.2. Benchmarks for each assessment artifact:

6.1.2.1. Raphex – 80th Percentile

6.1.2.2. ABR Part 1 – Pass (ABR Part 1 is a Pass/Fail Examination)

6.1.2.3. Oral Presentation/Student Seminar – Student shall have an average score on their Oral Presentation Evaluation Rubric of a 3.0 or better in their last year.

6.1.2.4. Written Qualifying Exam – Absolute score: 50 %
6.1.2.5. Oral Proposal Defense – 3.0 or better on Research Oriented Oral Exam Assessment Rubric
6.1.2.6. Final Exam – 3.0 or better on Final Oral Exam Rubric

7. Assessment Cycle and Data Analysis

7.1 **Assessment Cycle**

We expect up to three students to enter the PhD program each year. In order to perform a meaningful evaluation of each outcome, we will review data for each learning outcome using data accumulated for 3 cohorts. Both indirect and direct measures of learning will be implemented in the first fall semester the program begins to matriculate students.

Assessment schedule

ASSESSMENT SCHEDULE		
ASSESSMENT CYCLE	**ACADEMIC YEAR**	**STUDENT LEARNING OUTCOMES ASSESSED**
1	2015-2016	N/A, program not yet approved/not active
1	2016-2017	Outcome #1
1	2017-2018	Outcome #2 and #3
2	2018-2019	Outcome #1
2	2019-2020	Outcome #2
2	2020-2021	Outcome #3

7.1.1. Reports are due to the University Assessment Council every October 31st for the previous Academic Year (i.e., the 2015-2016 Academic Year is reported on October 31st, 2016).

7.2. Data Analysis Process/Procedures

7.2.1. Data will be collected and compiled by faculty and provided to the unit coordinator/DGS. The data will be analyzed by two or more individuals, where improvement actions will be sought for the program. The final results and suggested improvement actions will be discussed at a faculty meeting, where a timeline for improvement implementation and any other suggestions can be discussed.

8. Teaching Effectiveness

8.1. The University of Kentucky administered Teacher Course Evaluation (TCE) process will be used by all instructors to permit evaluation of teaching effectiveness by their students each semester. The Department Chair will review, for each program instructor, several informational items (the TCE results, teaching portfolio, teaching philosophy, pedagogical style and relevant supplemental information such as voluntary mid-course evaluations or peer review assessments) and provide feedback to the instructor. This will occur near the end of even numbered calendar years for tenured teaching faculty and every year for non-tenured instructors).

9. What are the plans to evaluate students' post-graduate success?

9.1. Initial job placement records will serve as an indication of initial post-graduate performance. This is to be supplemented by anecdotal evidence from continued contacts with faculty and other current or former graduate students. Further opportunities will be explored by the Radiation Medicine and Radiology Graduate Program Committee.

10. Appendices

10.1. Student General Oral Presentation Faculty Evaluation Rubric
10.2. Research Oriented Oral Exam Assessment
10.3. Program Assessment by Graduates

10.1

Student General Oral Presentation Faculty Evaluation Rubric

Speaker: **Date:**

Skill Assessed	Excellent 4	Good 3	Adequate 2	Deficient 1	Score
Ability to introduce/explain background of topic	Speaker clearly described the general area of the topic.	Mostly excellent elements, some deficient elements	More excellent elements than deficient elements	Speaker did not clearly describe the general area of the topic.	
Ability to describe relevant details	Details of all technical designs and methodologies were clearly presented, with appropriate schematics.	Mostly excellent elements, some deficient elements	More excellent elements than deficient elements	Many technical designs were unclear, or key details of the methods were not provided or were incorrectly explained.	
Ability to interpret and discuss results	The Interpretations of all technical and clinical details were clearly described.	Mostly excellent elements, some deficient elements	More excellent elements than deficient elements	Speaker did not provide clear interpretations of technical and clinical details, or interpretations were incorrect.	
Able to respond to questions	The speaker repeated questions or paraphrased to clarify and sought to understand questions that were unclear. Questions were answered appropriately. The speaker demonstrated a depth of knowledge about the field.	Mostly excellent elements, some deficient elements	More excellent elements than deficient elements	Speaker answered questions inappropriately due to failure to understand the question or a failure to understand the larger context of the field. The speaker became flustered during questioning.	
Ability to communicate clearly and effectively use presentation technologies	Speaker spoke clearly, loudly enough, and with an appropriate tempo. No distracting movements or gestures, and maintained audience attention with eye contact, voice inflection, facial expression. Slides easy to read and not overcrowded, crucial slides presented long enough for viewing, no typos or slides out of order.	Mostly excellent elements, some deficient elements.	More excellent elements than deficient elements.	Speaker difficult to hear, spoke to only part of room, displayed numerous distracting movements/gestures, or tempo was consistently too fast/slow. Many slides difficult to read, had difficult-to-see color choices, speaker went through some slides too fast, had overcrowded slides, multiple typos.	
Overall quality of presentation	All of the elements of this talk were excellent.	Mostly excellent, some deficient elements.	More excellent than deficient elements.	Most of the elements of this talk were deficient.	

Comments/Suggestions:

Areas for Improvement:

Positive Aspects of Presentation:

Name of Evaluator:_____

10.2

Research Oriented Oral Exam Assessment Date of Exam:

Student:

Committee Members:

Skill Assessed	Excellent 4	Good 3	Adequate 2	Deficient 1	Score
Ability to master and critically analyze literature related to the project.	Demonstrates a thorough understanding of knowledge in the project area, and the ability to consistently discern the meaning and relative validity of data in scientific research publications.	Demonstrates a good understanding of knowledge in the project area, and displays many examples of the ability to discern the meaning and relative validity of data in scientific research publications.	Demonstrates some understanding of knowledge in project area, and some ability to discern the meaning and relative validity of data in scientific research publications.	Demonstrates minimal understanding of knowledge in the project area, and is unable in many cases to discern the meaning and relative validity of data in scientific research publications.	
Ability to formulate relevant, testable hypotheses, devise clear experiments for addressing hypotheses, and analyze and interpret data appropriately.	Demonstrates thorough understanding of the scientific method, clear ability to generate hypotheses, understand and design complex experimental protocols, and analyze data with a clear and proper interpretation.	Demonstrates good understanding of scientific method, generating hypotheses, designing experiments appropriate for testing hypotheses, presenting data in an appropriate context.	Demonstrates some understanding of scientific method, needs assistance with complex experimental design and analyzing data, can present and interpret data with some help from PI.	Demonstrates little understanding of scientific method, limited ability to conceive experimental designs to address hypotheses, needs significant faculty input for data analysis and interpretation.	
Ability to orally communicate data and interpretation effectively with scientific peers, answer questions, and communicate ideas.	Articulates intimate understanding of project, is able to orally communicate and defend new ideas, thinks effectively on his/her feet, is consistently able to integrate knowledge from multiple disciplines and experience to answer questions or solve problems.	Has appropriate understanding of project, able to articulate ideas but lacks creativity, can think through basic problems when questioned, and in many cases can integrate knowledge appropriately to answer questions or solve problems.	Has a basic understanding of project but lacks depth, answers basic questions but has difficulty thinking on his/her feet, and is sometimes able to integrate knowledge to answer questions or solve problems.	Lacks understanding of project and is not able to communicate rationale for interpretation of data or direction of the project, and is unable to draw from different areas or experiences to answer questions or solve problems.	
Ability to communicate effectively through scientific writing.	Demonstrates thorough understanding of context, audience, and purpose of the proposal; uses appropriate, relevant, and compelling content to convey contribution to the scientific discipline; pays detailed attention to and successful execution of grant-writing conventions including organization, content presentation, formatting, and style; uses relevant and credible references appropriately, uses skilled language that conveys meaning with clarity and fluency, and is nearly error free.	Demonstrates adequate consideration of context, audience and purpose of proposal; many examples of appropriate, relevant and compelling content to convey the contribution to the scientific discipline; consistently uses grant-writing conventions including organization, content, presentation, and style; consistently uses appropriate references to support ideas; uses clear language that generally conveys meaning to readers, with few errors.	Demonstrates awareness of context, audience, and purpose of the proposal; has some examples of appropriate, relevant, and compelling content; follows expectations appropriate to grant writing for basic organization, content, and presentation; attempts to use credible and/or relevant references to support ideas; uses language that generally conveys meaning with clarity, though with errors	Demonstrates minimal attention to context, audience, purpose of the proposal; uses appropriate and relevant content to develop simple ideas in parts of the work; attempts to use a consistent system for basic organization and presentation; attempts to use sources to support ideas; uses language that sometimes impedes meaning because of errors in usage.	

Note: Non integer scores can b given (e.g. 2.8, 3.5, etc.) Comments/Suggestions for Improvement:

10.3

Departments of Radiation Medicine and Radiology
Program Assessment by Graduates

Name:
Date of Graduation:
Current position:

Please score the following program elements in terms of whether they have been important in preparing you for your current position.

Learning outcomes	Well prepared/ Used every day 4	Mostly prepared/ Used regularly 3	Some preparation/ Used occasionally 2	Not prepared/ Never used 1	Score
Knowledge obtained from courses outside the department					
Knowledge obtained from courses taught by the department					
Scientific skills learned by working in a lab such as ability to read scientific literature and creatively apply it to current research projects, ability to develop hypotheses and design experiments to address these, ability to analyze and interpret data					
Public speaking skills obtained from giving seminars, journals club presentations, class room presentation, presentations at conferences					
Writing skills learned from writing papers for courses, manuscripts for publication, fellowship applications, qualifying exam, dissertation					
Teaching skills obtained from putting together presentations in classes and journals clubs, working as a teaching assistant, and/or giving oral presentations					

What are your perceived strengths of the Medical Physics program?

What are your perceived weaknesses of the Medical Physics program?

Radiological Sciences (51.2205)

Degree Program Core Courses (i.e., Courses required by ALL students in the Major--includes Premajor or Preprofessional courses)

Course Prefix	Course #	Course Title	Course Description	Type of Course: program core (C) or pre-major/ pre-professional (P)	Credit Hours	Existing (E) or New (N) Course
RAS	546	Introduction to Medical Physics	The uses and dosimetric aspects of radiation in medicine will be analyzed, including many basic applications in the fields of diagnostic radiology physics, therapy physics, and nuclear medical physics. Prereq or concur: RM/PHY 472G or consent of instructor. (Same as PHY/RM 546.)	C	2	E
RAS	472 G	Interactions of Radiation with Matter	Basic aspects of the interaction of ionizing radiation with matter. Bohr atom, atomic spectra, radioactivity, energetics of decay. Sources of radiation, penetration of charged particles, electromagnetic radiation, and neutrons through matter; excitation and ionization processes; slected nuclear reactions; basic radiation detection and dosimetry. Prereq: PHY 213 or 232; MA 114 (may be taken concurrently); or equivalent. (Same as PHY/RM 472G.)	C	3	E
RM	740	Radiobiology	The physical and biological sequelae of radiation effects will be discussed emphasizing human and mammalian responses and radiation health. Emphasis will be for health and medical workers. Prereq: Consent of instructor; BIO/RM 540 or RM 546 or equivalent background. (Same as BIO 740.)	C	2	E
RAS	647	Physics of Medical Imaging 1	Specialized and advanced topics in diagnostic imaging, including modulation transfer function analysis, image processing algorithms, acceptance testing, CT, NMR, ultrasound, etc. Prereq: PHY/RM/RAS 546 or consent of instructor. (Same as RM 647.)	C	3	E
RAS	648	Physics of Medical Imaging 2	A continuation of RAS/RM 647. Specialized and advanced topics in nuclear medicine imaging physics, including positron emission tomographic procedures, emerging new modalities, and quality control. Prereq: RM/RAS 647 or consent of instructor. (Same as RM 648.)	C	3	E
RAS	601	Dosimetry Systems	Advanced aspects of the interaction of radiation with matter and specialized topics in the dosimetry of ionizing radiations. Modifications of Bragg-Gray theory for application to megavoltage sources. Beta dosimetry. Specialized calibration techniques. Relative response functions of various media. Nontraditional techniques. Dosimetry of radiation fields including complex spectra. Prereq: PHY 472G, RM 546, or equivalent. (Same as RM 601.)	C	2	E
RAS	649	Physics of Radiation Therapy	Specialized external beam and brachytherapy treatment planning; advanced Bragg-Gray cavity applications, including Ngas and TG- 21; calibration, acceptance testing, and quality control of therapy physics equipment. Prereq: RAS/RM/PHY 546 and RAS/RM 601, or consent of instructor. (Same as RM 649.)	C	3	E
RAS	695	Research in Medical Physics	Independent directed research on theoretical and practical problems in the health-related radiation sciences. May be repeated to a maximum of eight credits. Prereq: Graduate standing in one of the radiation-related sciences, plus consent of instructor. (Same as RM 695.)	C	4	E
RAS	651	Imaging Physics Laboratory	Specialized experiments involving the use, calibration, and quality control of x-ray and other diagnostic imaging equipment, and the appropriate use of radiation detectors in diagnostic physics measurements. Laboratory, approximately 30 hours per credit. May be repeated to a maximum of three credits. Prereq: RM/PHY 472G, RAS/RM 546; and concurrent: RAS/RM 647, or equivalent, plus	C	2	E
RAS	710	Special Topics in Medical Physics	Topics of current interest relating to radiation and its applications in the areas of radiological medical physics and health physics. May be repeated to a maximum of four credit hours with consent of instructor. Prereq: Graduate standing in a radiation-related science.	C	1	E
RAS	711	Research Methods in Medical Physics	This course will introduce the student to, and give them practical experience in, writing research proposals, research reports and carrying out research work. The course will be jointly taught vy various medical physics faculty and guest lecturers. Students will be asked to present their own work to be critiqued by the class. The goal is to give the student a hands-on experience of what is involved in doing funded clinical research on human subjects and getting it published in an academic journal.	C	1	N
RAS	767	Post Qualifier Residency (research)	Registration for this course recognizes that the student is conducting research toward fulfillment of their thesis requirements.	C	4	N
RAS	545	Radiation Hazards and Protection	An analysis of common radiation hazards encountered in medicine, research, industry, and the environment. Regulations and procedures for the safe use of ionizing and nonionizing radiations. Prereq: PHY/RM 472G or consent of instructor. (Same as PHY/RM 545.)	C	3	E
Total Credit hours Required for Program Core (i.e., # of hours in degree program core) Note: number recorded will automatically populate Core Hours in "Summary of Total Program Hours" table					33	NA

Core Courses Required for Track(s), Concentration(s), or Speciality(s) (if applicable)

Course Prefix	Course #	Course Title	Course Description	Course Required for Track	Credit Hours	Existing (E) or
Total Credit hours Required for Program Options (Track(s), Concentration(s), or Speciality) (if applicable) Note: number recorded will automatically populate Program Option hours in "Summary of Total Program Hours" table					0	NA

GUIDED Elective Courses (i.e., Specified list of Program Electives AND/OR Electives focused on a specific track/concentration/or speciality) (if applicable)

Course Prefix	Course #	Course Title	Course Description	Course Required for Program (P), Track (T), Concentration (C) or Specialty (S)	Credit Hours	Existing (E) or New (N) Course
RAS	650	Physics of Brachytherapy	A presentation of the full scope of use of implanted radiation sources for medical purposes. The course includes consideration of all aspects of brachytherapy dosimetry and treatment planning as well as modern and cutting-edge brachytherapy clinical practice. Characteristics of interstitial, intracavitary, and intraluminal implants, as well as remote afterloaders, are considered. Prereq: RAS/RM/ PHY 546; RM/PHY 472G; RAS/RM 649 (may be co-requisite). (Same as RM 650.)	P	0- 2	E
RAS	695	Research in Medical Physics	Independent directed research on theoretical and practical problems in the health-related radiation sciences. May be repeated to a maximum of eight credits. Prereq: Graduate standing in one of the	P	0-12	E
RM or RAD	660	Clinical Practicum	Clinical Practicum		0-6	N
Variable		Related science/engineering/medicine Focus area courses 300/400 level or higher		P	6-18	E
# of REQUIRED Credit hours in Guided Electives (i.e., electives for a focused or track/concentration/speciality are). If 9 hours is required and there are 15 hours to choose from, then only 9 hours are required) Note: number recorded will automatically populate Guided Elective hours in "Summary of Total Program Hours" table					18	NA

FREE Elective Courses (i.e, general program electives, open to the students to choose) (if applicable)

Course Prefix	Course #	Course Title	Course Description	Course Required for Program (P), Track (T),	Credit Hours	Existing (E) or New (N) Course
Total # of Credit Hours in Free Electives (i.e., general program electives) (if applicable) Note:					0	NA

Summary of Total Program Hours			
	Required Core Hours (i.e., # of hours in degree program core)	33	NA
	Required Program Options - Track/Concentration/Specialty Hours (if applicable)	[illegible]	[illegible]
	Guided Elective Hours (e.g. focused or track/concentration/speciality area specific electives) (if applicable)	[illegible]	[illegible]
	Free Elective Hours (i.e., general program electives) (if applicable)	0	NA
	Total # of credit hours required for Program	51	NA
Information to be completed by PIE Office			
	# of new courses	[illegible]	NA
	Total # of Courses (includes new and existing)	[illegible]	[illegible]
	Precentage of new courses (more than 25% may require SACS Substantive Change)	20%	NA

Faculty Roster Form
Qualifications of Full-Time and Part-Time Faculty

Name of Institution: University of Kentucky

Name of Primary Department, Academic Program, or Discipline: PhD_Radiological Sciences
Academic Term(s) Included: Fall 2016 - Fall 2019

Date Form Completed: April 7, 2016

1 Course Instructor Name NAME (F, P)	2 COURSES TAUGHT Including Term, Course Number & Title, Credit Hours (D, UN, UT, G)	3 ACADEMIC DEGREES& COURSEWORK Relevant to Courses Taught, Including Institution & Major List specific graduate coursework, if needed	4 OTHER QUALIFICATIONS & COMMENTS Related to Courses Taught	5 NEW Courses (Includes Course Prefix, #, & title)
Janelle Molloy, (F) Professor, Radiation Medicine/Medical Physics, Director of Medical Physics clinical and academic programs	*RAS 546: Intro. Med. Physics, F 2016-2019, 2 cr, (G)* *RAS 695: Research in Med. Physics, F/S 2016-2019 variable cr (G)* *RAS 710: Special Topics in Med. Physics, F 2016-2019, 1 cr, (G)* *RM 660: Graduate Practicum in Radiation Medicine, variable cr, F/Sp/Summer 2016-2019 (G)*	** Ph.D., Physics, University of Virginia, 1990* ** Fellow, American Association of Physicists in Medicine*	*Certified/Diplomat, American Board of Radiology, Therapy Physics*	*RAS 711: Research Methods in Medical Physics, F 2016-2019, 1 cr, (G)*
Peter Hardy, (F) Assistant Professor,	*RAS 647:Physics of Diagnostic Imaging 1,S 2016-*	*Ph.D. Medical Physics, University of Toronto, 1991.*	*Certified/Diplomat, American Board of*	*RAS 711: Research Methods in Medical Physics, F 2016-2019, 1*

Radiology/Division of Medical Physics	***2019, 3cr, (G) RAS 648: Physics of Diagnostic Imaging 2, F 2016-2019, 3cr, (G) RAS 711: Research Methods in Medical Physics, 1cr (G)***	***Member the ISMRM, AAPM***.	***Radiology, Diagnostic Physics***	***cr, (G)***
Wei Luo, (F) Associate Professor, Radiation Medicine/Medical Physics, Associate Program Director for International Collaborations	***RM 650: Brachytherapy Physics, S 2016-2019, 2cr (G) RM 660, Graduate Practicum Radiation Medicine, F/S 2016-2019, 6cr (G) RM 710, Radiation Science Seminar, F 2016-2019, 1 cr (G) RM 740, Mammalian Radiation Biology, F 2016-2019, 2cr (G)***	****Ph.D., Physics, University of Oklahoma, 2002***	***Certified/Diplomat, American Board of Radiology, Therapy Physics***	***RAS 711: Research Methods in Medical Physics, F 2016-2019, 1 cr, (G)***
Ellis L. Johnson, (F) Professor, Radiation Medicine/Medical Physics, Director of Medical Physics Graduate Studies Program	***RAS 546, General Medical Physics, F 2016-2019, 3cr, (G) RAS 601, Advanced Radiation Dosimetry, S 2016-2019, 2cr (G) RAS 649,Radiation Therapy Physics, S 2016-2019, 3cr, (G) RAS 695, Research in Medical Physics (Mentor), 2 cr (G) RM 660, Graduate Practicum (Mentor in Treatment Planning) F/S/Sum 2016-2019 Variable cr, (G)***	****PhD, Nuclear Chemistry, University of Kentucky, 1993*** ****Post-Doctoral Scholar, Nuclear Medicine Imaging, Duke University Medical Center, 1993-1995*** ****Residency in Radiation Therapy Physics, University of Kentucky Medical Center, 1995-1997***	***Certified/Diplomat, American Board of Radiology, Therapy Physics***	
Dennis Cheek, (F) Adjunct Professor, Radiation Medicine/Medical Physics	***RAS 545: Radiation Hazards and Protection, S 2016-2019, 3cr (G) RM 660: Practicum in Radiation Medicine, S 2016-2019, 3 cr, (G)***	**** Ph.D., University of Texas Health Science Center of San Antonio, 2005***	***Certified/Diplomat, American Board of Radiology, Therapy Physics***	
Michael Sanders, (F) Adjunct Professor, Radiation Medicine/Medical Physics	***RM 472G, Interaction of Radiation with Matter, F 2016-2019, 3 cr, (G)***	***M.S., University of Kentucky Radiological Medical Physics 1992 B.S. Physics (with honors), University of Louisville, 1970***	***Authorized Medical Physicist per Nuclear Regulatory Commission, Gamma Knife***	
Travis Painter, (P) Assistant Professor, Radiation Medicine/Medical Physics	***RAS 651, Laboratory in Diagnostic Imaging, F 2016-2019, 1-3 cr, (G)***	***M.S University of Kentucky, 1999***	***Certified/Diplomat, American Board of Radiology, Diagnostic Physics***	

Jie Zhang, (F) Associate Professor, Radiology/Chief, Division of Medical Physics	*RAS 647, Physics of Diagnostic Imaging I, S 2016-2019, 3 cr (G) RAS 648, Physics of Diagnostic Imaging II, F 2016-2019, 3cr (G)*	*M.S., Nanjing University of Science and Technology, China Biomechanics,1996 PhD, Tianjin University, China, Biomedical Engineering, 1999 PhD, University of Minnesota, Twin Cities, Biophysical Sciences and Medical Physics, 2004*	*Certified/Diplomat, American Board of Radiology, Diagnostic Physics*	
William St. Clair, (F) Professor, Radiation Medicine/Oncology	*RM 740, Mammalian Radiation Biology, F 2016 – 2019, 2 cr, (G) RM 842, Radiation Oncology, S 2016-2019, 1 cr (G)*	*PhD, University of Iowa, Radiation Biology, 1985 M.D., University of Kentucky, Radiation Oncology, 1995*	*Certified/Diplomat, American Board of Radiology, Radiation Oncology*	

F, P: Full-time or Part-time; D, UN, UT, G: Developmental, Undergraduate Nontransferable, Undergraduate Transferable, Graduate

Molloy, Janelle

From: Hardy, Peter A
Sent: Friday, November 13, 2015 9:43 AM
To: Jackson, Brian A
Cc: Molloy, Janelle; Luo, Wei
Subject: RE: PhD proposal for Radiation & Radiological Sciences

Dr. Jackson

Thank you very much. I'm happy to hear that consensus.

Peter Hardy

From: Jackson, Brian A
Sent: Friday, November 13, 2015 9:30 AM
To: Hardy, Peter A
Subject: RE: PhD proposal for Radiation & Radiological Sciences

Hi Peter:

The consensus is that HCCC doesn't need to review this Graduate Program proposal. The work-flow diagram on Mia's web-site appears to support this also.

Best,

Brian

From: Hardy, Peter A
Sent: Tuesday, November 10, 2015 4:43 PM
To: Jackson, Brian A
Cc: Molloy, Janelle; Luo, Wei
Subject: PhD proposal for Radiation & Radiological Sciences

Dr. Jackson

We understand that our application for a new PhD in Radiological Sciences has progressed out of the COM committees and is currently under review in the graduate council. Looking on the flow chart for the approval of new graduate programs it appears that applications are simultaneously reviewed by the graduate council and HCCC. Speaking with Dr. Mia Alexander-Snow we were unclear if our application needed to be reviewed by HCCC. Can you give us any guidance about this.

Peter Hardy

Quarterly Medical Physics Education Meeting: January 14, 2015

Attendance: J. Molloy, W. Luo, L Johnson, M. Sanders, P. Aryal, J Zhang, P Hardy, R Pendelton

Absent: S Gerring

Agenda:

To discuss and approve proposal for PhD track for graduate program.

Minutes:

The attached power point presentation was presented and discussed at length. Ultimately, the proposal to move forward with a PhD track for our Medical Physics graduate program (Radiation Sciences) was approved unanimously.

RADIATION SCIENCES (RAS) PHD TRACK PROPOSAL AND STRUCTURE

- Core decision points
- Informational
- Integration / funding / tertiary issues

CORE DECISION POINTS

- Required coursework
- Language / skills requirements
- Qualifying exam
- Provisions for monitoring progress

CORE

Course requirements for PhD

Abbreviation	Program	Name	Number of credit hours	Comments
RAS 546	Radiation Sciences	Introduction to Medical Physics	2	NC
RAS 472G	Radiation Sciences	Interactions of Radiation with Matter	3	NC
RM 740	Radiation Sciences	Radiobiology	2	NC
RAS 647	Radiation Sciences	Physics of Medical Imaging 1	3	NC
RAS 648	Radiation Sciences	Physics of Medical Imaging 2	3	NC
RAS 601	Radiation Sciences	Dosimetry Systems	2	NC
RAS 649	Radiation Sciences	Physics of Radiation Therapy	3	NC
RAS 695	Radiation Sciences	Research in Medical Physics	4	2 additional
RAS 651	Radiation Sciences	Imaging Physics Laboratory	2	NC
RAS 710	Radiation Sciences	Special Topics in Medical Physics	1	NC
RAS 545	Radiation Sciences	Radiation Hazards and Protection	3	NC
RAS 650	Radiation Sciences	Physics of Brachytherapy	2	Currently elective
RM 842	Radiation Sciences	Clinical Radiation Oncology	1	NC
RAS 767	Radiation Sciences	Post Qualifier Residency (research)	4	Dissertation residency required by UK.
RAS 711	Radiation Sciences	Research methods in Medical Physics	1	New course to be developed
RM 66x or RAD 66x	Radiation Sciences	Clinical Practicum	13	?? Require or keep elective??
Variable	Other science/engineering	Minor / focus area courses	6	Must be 300 level or above
		Total	55	

NC = no change from current MS program

CORE

Language(s) and/or skill(s) required: Proficiency in research methods in Medical Physics. This will be demonstrated by completion of the course “Research Methods in Medical Physics” with a grade of ‘B’ or higher. Successful completion of this course will demonstrate advanced skill in computer programming, hypothesis development, research proposal development and technical writing.

CORE

Qualifying examination requirements:
The qualifying exam will be a written, problem based exam, consisting of 4 parts. These are;
Radiological Physics and Dosimetry
Physics of Medical Imaging
Physics of Radiation Therapy
Elective topic (select one)
- Advanced Radiation Therapy Physics
- Advanced Medical Imaging Physics

The exam will be administered in the second year of the program and a score of 50% or greater will be required in order to pass. Students who do not pass on the first attempt will be allowed a second attempt. If the second attempt is unsuccessful then the student will not be allowed to proceed in the PhD track of the program.

CORE:
PROVISIONS FOR MONITORING PROGRESS AND TERMINATION CRITERIA

All students must engage in and complete most of the core didactic requirements of our existing MS in Medical Physics program. This typically requires 4 semesters to complete. In addition, most students participate in the elective clinical practicum (RM 660), which consists of 5 core rotations. The practicum typically starts in the first spring semester, and extends over the summer and both semesters in the second year.

Candidates wishing to pursue the PhD option will take the qualifying exam in the second year. Students who successfully pass the qualifying exam will be permitted to proceed in the PhD track. Students who opt out of the qualifying exam, or who do not pass it, will have the opportunity to complete remaining requirements for the MS degree.

CORE:
PROVISIONS FOR MONITORING PROGRESS AND TERMINATION CRITERIA

Candidates who pass the qualifying exam and opt to pursue the PhD track, will be encouraged to complete the requirements for the existing MS in Medical Physics degree, as well as complete all components of the clinical practicum. This includes the existing culminating oral exam and will typically be complete in the spring or summer of the second year.

CORE:
PROVISIONS FOR MONITORING PROGRESS AND TERMINATION CRITERIA

The program is designed to train clinician/investigators and is intended to result in the acquisition of a PhD degree and Medical Physics Residency certificate. As such, the third year may be spent completing what is now primarily the first year of our Medical Physics Residency. This consists of 4 rotations, each lasting 3 months in duration. Three of these rotations are clinical and one is research-oriented. The research rotation will serve towards the research requirement of the PhD degree. Acceptable progress during this third year will be determined primarily by the successful completion of the 3 clinical rotations, currently evidenced by passing an oral exam, and defense of a research dissertation proposal.

CORE:
PROVISIONS FOR MONITORING PROGRESS AND TERMINATION CRITERIA

In addition, the student must orally defend a proposal for the selected dissertation topic. The proposal defense will be delivered to the student's dissertation advisory committee.

CORE:
PROVISIONS FOR MONITORING PROGRESS AND TERMINATION CRITERIA

Following the third year, the student will focus on the selected research topic. This phase is expected to last 2-3 years. Progress will be monitored annually by the student's dissertation committee.

The PhD will be granted following completion of an acceptable dissertation and defense following standard University of Kentucky procedures and guidelines.

INFORMATIONAL

Residence requirement: A student must complete a minimum of 36 hours of residency before the qualifying exam and 2 semesters of residency after qualifying exams.

INFORMATIONAL

Post-Qualifying Residency: Students first enrolled in a doctoral program in the fall 2005 semester and beyond are required to enroll in a 2 credit hour course, XXX-767; Dissertation Residency Credit, after successfully completing the qualifying examination. This constitutes full-time enrollment. They will be charged at the in-state tuition rate plus mandatory fees. Students must remain continuously enrolled in this course every fall and spring semester until they have completed and defended the dissertation. The student need not be physically present on campus while enrolled for credit after the qualifying examination.
Students are required to complete a minimum of two semesters of 767 before they can graduate. Continuous enrollment in 767 also applies to students whose programs of study or certification standards require an extended practicum or field experience.

INFORMATIONAL

Number of transfer credits allowed: 9 hours of relevant graduate course credit may be transferred from another institution or another program. If the student has an MS from another institution or program, up to 18 hours from course credits from the MS may be credited toward the pre-qualifying exam residency requirement.

INFORMATIONAL

SURVEY OF RADIATION SCIENCES DOCTORAL PROGRAMS

Jan 2015

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COURSE WORK REQUIREMENTS (MS/PHD # CREDIT HOURS)

UK Radiation Sciences	U Florida	MD Anderson	UT San Antonio	U Minnesota	Wisconsin	VCU	Duke
55	30/90*	34/48	~48β	30(cr)+24(th)	32+22%	30+12	40/+0

* it seems that a lot of the additional credits at UF derived from supervised teaching and research rather than actual courses

β 3 or 4 credits / semester are given for research; 1 credit/semester is given for supervised teaching.

% at UW of additional 22 credits must include 9 at level ≥300 constituting a minor

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TIME TO TAKE QUALIFYING EXAM

UK Radiation Sciences	U Florida	MD Anderson	UT San Antonio	U Minnesota	Wisconsin	VCU	Duke
Second program year	Within 24 mo of starting grad study	at start of summer semester of 2nd year.	PhD given in Jan of student's second year in program.	End of 1st year.	Taken after 3rd semester	Beginning of spring semester of 2nd year.	At the beginning of the 2nd year.

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CONTENT OF QUALIFYING EXAM

UK Radiation Sciences	U Florida	MD Anderson	UT San Antonio	U Minnesota	U Wisconsin	VCU	Duke
Written	Written: 4 hrs covering all medical physics	written, + submission of one paper to a journal, + passing thesis proposal.	MS exam: 4hr multiple choice covering material in core courses. PhD exam: oral / write a "NIH-F" grant.	Oral defense of thesis proposal.	Written 3hrs; 5 question sets taken from core courses	Written and oral covering basic Med Phys , Phys, Chem material	written

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TIME TO DEFEND THESIS PROPOSAL

UK Radiation Sciences	U Florida	MD Anderson	UT San Antonio	U Minnesota	Wisconsin	VCU	Duke
End of third year typically		Proposal consists of 10-15 NIH-style grant application.	Usually after 3rd year.	By Oct of 3rd year of full time registration.	Before end of 3rd year in program.	Some time in fall semester of 3rd year.	

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PROGRAM SIZE (# STUDENTS MS/PHD)

UK Radiation Sciences	U Florida	MD Anderson	UT San Antonio	U Minnesota	Wisconsin	VCU	Duke
?	20/20	41	10/18		/26		35/26

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WHERE DOCTORAL PROGRAM HOUSED

UK Radiation Sciences	U Florida	MD Anderson	UT San Antonio	U Minnesota	Wisconsin	VCU	Duke
College of Medicine **(Radiation Medicine + Radiology)**	Department of Biomedical Engineering	Grad School of Biomedical Sciences		Radiation Oncology	School of Medicine		

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POSSIBLE AREAS OF STUDY FOR A MINOR

ADDITIONAL COURSES TO TAKE FOR MINOR

Radiobiology

Soft Tissue Mechanics

- ME641 “Foundations of Solid Mechanics”
- BME641 “Biosolid Mechanics”

ADDITIONAL COURSES TO TAKE FOR MINOR

Instrumentation

- BME530 Biomedical Instrumentation
- ECEXXX

Image Analysis

- BME605 Biomedical Signal Processing
- Image Processing

RESEARCH METHODS IN MEDICAL PHYSICS RAS711

Good Clinical Practice
Research ethics and clinical governance
Research method including:
o Qualitative
o Quantitative
o Bio-statistics
o Systematic review and critical appraisal of the literature
o Epidemiological research methods
Study design
Hypothesis generation and testing
Literature searching and referencing
Critical Appraisal
Evidence-Based Practice
Application and interpretation of statistical techniques
Dissemination of research/audit findings
Development of Clinical Guidelines
Quality Assurance applied to research
Cost-benefit of research
Sources of Research Funding

INTEGRATION / FUNDING / TERTIARY ISSUES

INTEGRATION / FUNDING / TERTIARY ISSUES

PhD / MPR track progression

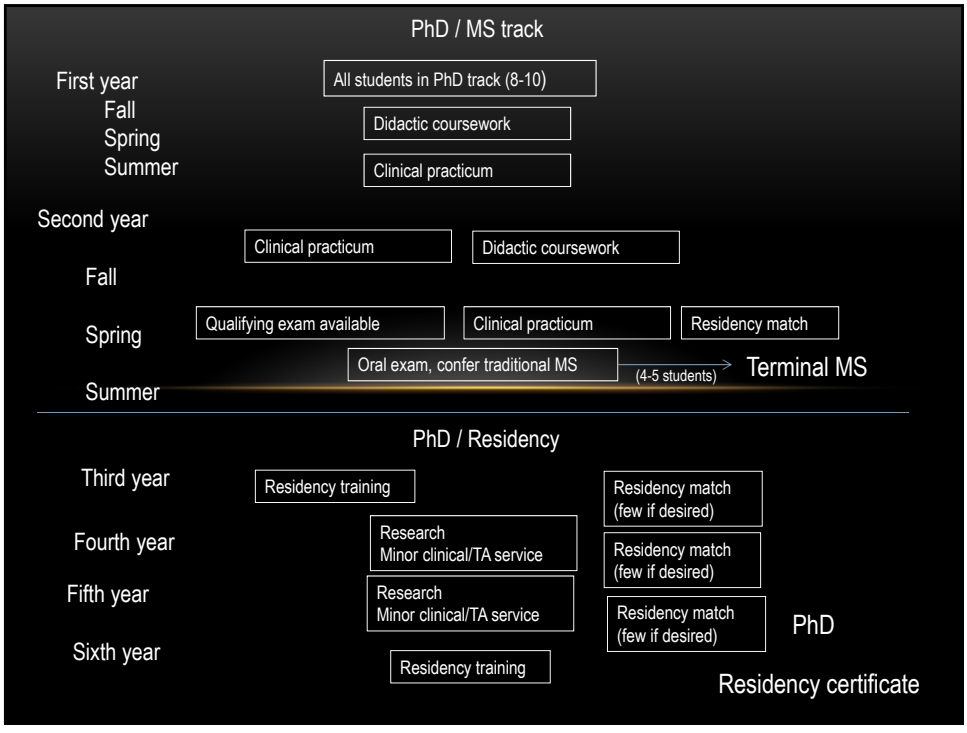
Cohort (Year)	Track			Possessed degree	Degree in progress	Funding	Status	Revenue	Expenses (Direct student)	Comments
	MS (terminal)	PhD	Certificate/didactic							
	Students (credits)	Students (credits)	Students (credits)							
1	4 (18)	4 (18)	2 (16)	BS (primarily)	MS/PhD	Self	PreQR	165722	0	
2	4 (18)	4 (18)	0	BS	MS/PhD	Self	PreQR	146256	0	
3		***4 (18)***		***MS***	***PhD/QMP /MPR***	***Self (tuition) /GA (4)***	***PreQR /PoQR***	***58264***	***60000***	**
4		4 (6)		MS/QMP	PhD	TA (4)	PoQR	0	60000	Teach RM660 and RAS 545 labs
5		4 (6)		MS/QMP	PhD	RA (4)	PoQR	16800	60000	
6		2 (6)		MS/QMP	PhD/MPR	GA (2)	PoQR	8400	30000	Most students finish
Trainee possesses: • **MS (CAMPEP accredited)** • **PhD** • **AMP (NRC) / KY Registered "Qualified expert"** • **Radiation Therapy Residency (CAMPEP accredited)**								391242 (260,000 current)	210000 (= current residency cost)	Total cost of instruction 340,000 to 290,000
Incremental Net Annual Revenue / Expense • 180,000								130,000	0	50,000

QUESTION: DO WE WANT TO ACCOMMODATE TRADITIONAL MS/RESIDENCY PATHWAY?

QUESTION: SHOULD THE MS COMPONENT BE THE SAME AS IS NOW FOR THE PHD STUDENTS?

- Rational…..May be going to more lab based clinical training….PhDs have time in residency to learn clinic and need to have TA-ships…..

QUESTION: DO WE WANT TO ACCOMMODATE TRADITIONAL MS/RESIDENCY PATHWAY?



Molloy, Janelle

From: Springer, Joe E
Sent: Tuesday, October 13, 2015 11:04 AM
To: Molloy, Janelle
Subject: Re: Radiation Sciences PhD proposal

Hi Janelle,

It went through Faculty Council without a hitch and should now be in the hands of Graduate Council. The last time I checked, Roshan Nikou is the contact person and she may be reached at roshan.nikou@uky.edu.

Just an FYI, Brett Spear and Tim McClintock are the COM council members…

Good luck!

Best,
Joe

From: "Molloy, Janelle" <janelle.molloy@uky.edu>
Date: Tuesday, October 13, 2015 10:56 AM
To: joe springer <jspring@uky.edu>
Subject: Radiation Sciences PhD proposal

Hi Joe,
I am reaching out to you as I know you are serving on the COM faculty council. I heard that our Radiation Sciences PhD proposal has been approved by COM and moved onto campus. Do you know whether this is the case? Should I be following up on anything?
Thanks

Janelle A.Molloy, PhD, FAAPM
Professor and Director, Medical Physics
Department of Radiation Medicine
Markey Cancer Center, Room CC061
800 Rose St
Lexington, KY 40536
jmo222@email.uky.edu
859-257-7612 (w)
859-330-6293 (pager)
https://radiationmedicine.med.uky.edu/radiation-sciences-graduate-program

Molloy, Janelle

From: Beatty, Dorcas D
Sent: Wednesday, March 23, 2016 10:02 AM
To: Molloy, Janelle
Subject: Course Proposal for RAS 711

Dr. Molloy:

RAS 711 has now been approved and forwarded via eCATS to the Graduate School.

Thanks, Dorcas

Dorcas D. Beatty | Office of Medical Education | Curriculum
800 Rose Street, MN 104 UKMC Room #109
Lexington, KY 40536-0298
P: 859-257-5286
E: ddbeat1@uky.edu

Molloy, Janelle

From: de Beer, Frederick C
Sent: Tuesday, September 16, 2014 10:19 AM
To: Molloy, Janelle
Subject: RE: Medical Physics Graduate Program

Janelle: I approve of your proposal. Please proceed as you indicate. Your leadership is greatly appreciated. Best wishes. Fred de Beer

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From: Molloy, Janelle
Sent: Tuesday, September 16, 2014 10:06 AM
To: de Beer, Frederick C
Subject: FW: Medical Physics Graduate Program

Dr de Beer,
Here is the note we discussed. Thank you very much for your support.

Janelle A.Molloy, PhD, FAAPM
Professor and Director, Medical Physics
Department of Radiation Medicine
Markey Cancer Center, Room CC061
800 Rose St
Lexington, KY 40536
jmo222@email.uky.edu
859-257-7612 (w)
859-330-6293 (pager)

From: Molloy, Janelle
Sent: Friday, September 05, 2014 4:04 PM
To: de Beer, Frederick C
Cc: Randall, Marcus E; Molloy, Janelle
Subject: Medical Physics Graduate Program

Dear Dr de Beer;
As we discussed recently, I would like to restructure the Medical Physics Graduate Program to include the option for a PhD track. This track would be similar to an MD/PhD program, in that trainees who complete the track in its entirety would obtain both MS and PhD degrees in Medical Physics, as well as a residency certificate rendering them eligible to sit for the certification exam.
In our existing training structure, 2 trainees are chosen from our graduating class in the MS program for entry into our residency. The existing medical physics residency is 2 years in duration and as such we support a total complement of 4 residents at a time. The administrative structure of this residency is supported via the College of Medicine's (COM) Office of Graduate Medical Education (GME). The resident stipends follow PGY1 and PGY2 levels.
I am writing to secure your support for redirecting the monetary equivalent of 2 PGY 1 and 2 PGY 2 stipends (and benefits) towards trainee support in the revised Medical Physics Educational program. At present, this would represent

approximately $220,000 in trainee support per year. These funds would be distributed towards Graduate, Research and Teaching Assistantships. The graduate assistantships would be applied for trainees while they are focusing on their clinical training and providing assistance with clinical physics services. This training and service would be conducted in a manner similar to those of our existing residency training.
Assuming that our application for the addition of the PhD track is successful, I expect that this trainee support model would begin a phased implementation starting in the 2015-2016 academic year. As such, I need the recruiting and compensation for our next cohort of Medical Physics residents (matriculation date of July 1, 2015) to proceed using our existing processes, and that we be allowed appropriate discretion and flexibility during the transition to the new model. If you can indicate your support for this plan, I will include it in my application for the creation of a PhD program track and will communicate with the COM GME leadership.
Thank you very much for your support and confidence.

Regards,
Janelle

Janelle A.Molloy, PhD, FAAPM
Professor and Director, Medical Physics
Department of Radiation Medicine
Markey Cancer Center, Room CC061
800 Rose St
Lexington, KY 40536
jmo222@email.uky.edu
859-257-7612 (w)
859-330-6293 (pager)

Molloy, Janelle

From: Nikou, Roshan
Sent: Friday, December 11, 2015 10:41 AM
To: Brothers, Sheila C; Carvalho, Susan E; Ellis, Janie; Ett, Joanie M; Hippisley, Andrew R; Jackson, Brian A; Lindsay, Jim D.; Nikou, Roshan; Price, Cleo; Timoney, David M
Cc: Molloy, Janelle; Parker, Steve; Perkins, Andrea L; Harmon, Camille; Clymer, Jeffory A; McCuddy, Jacqueline R; Ivanov, Bobi
Subject: Transmittal
Attachments: Masters in KHP Sport Leadership w sig-signed.pdf; Ph.D.Radiation Sciences-signed.pdf; ENG, University Scholars Program, 10_20, 2015-signed.pdf; Masters Program CHANGE Form 2015-HB-MPH.pdf; MHA Program Change 2015 Form.pdf; HA-CPH Course Change Table_TOGC-signed.pdf

TO: Andrew Hippisley, Chair and Sheila Brothers, Coordinator
Senate Council

FROM: Susan Carvalho, Chair and Roshan Nikou, Coordinator
Graduate Council

The Graduate Council approved the following proposals and is now forwarding them to the Senate Council to approve. All the courses listed below, are accessible via E-Cats' workflow.

Programs
Ph.D. in Radiation Science
University Scholars English
Master of Public Health
Master of Health Administration
Master in KHP

Courses
PA 695 Data and Revenue Forecasting
PA 696 Legal Issues in Public Financial Management
PA 697 Special Topics in Public Financial Management
BAE 535 Environmental Control System Design and Reclamation
CHE 516 Inorganic Materials Chemistry
CPH 716 Proseminar in Occupational Health and Safety
CPH 746 Research Methods and Program Evaluation
LIN 615 Advanced Phonology
LIN 622 Advanced Syntax
LIN 640 Advanced Laboratory in Linguistics
LIN 709 Advanced Seminar in Semantics and Pragmatics

PA 694 Public Pensions and Insurance
EDP 545 Psychology of the Black Experience
LIN 611 Quantitative Methods in Linguistics
LIN 705 Advanced Method in Morphology
MFS 609 Leadership for Lean System
MNG 591 Mine Design Project
MFS 507 Design for manufacturing
FAM 787 Supervised Practice of Couple/Family Therapy
CJT 764 Advanced Topics in Qualitative Research
CJT 765 Advanced Seminar in Communication Research Methods
CJT 771 Seminar in Health Communication
CJT 780 Special Topics in Communication
ME 556 Introduction to Composite Materials
DHN 800 Nutrition in the Life Cycle
DHN 808 Community Nutrition
DHN 810 Medical Nutrition Therapy I
DHN 812 Food Service Systems Management I
DHN 814 Food Service Systems Management II
DHN 816 Medical Nutrition Therapy II
HA prefixes change to CPH

Roshan Nikou
The Graduate School
The University of Kentucky
105 Gillis Building - 0033
Phone: (859) 257-1457
Fax: (859) 323-1928
Roshan.Nikou@uky.edu

Molloy, Janelle

From: Alexander-Snow, Mia
Sent: Friday, August 19, 2016 10:12 AM
To: Molloy, Janelle
Subject: RE: Radiation sciences PhD

Dear Janelle,

Thank you for following-up with me today. I will hold off any review and updates to the CPE full-proposal until you notify me that the proposed program has been approved by the Senate. It is after Senate approval that you and I will go through the CPE full-proposal to be sure it mirrors the Senate approved proposal.

Please let me know if I missed anything.

Best,
Mia

Mia Alexander-Snow, PhD
Director, Planning and Institutional Effectiveness
Phone: 859-257-2873
Fax: 859-323-8688

Visit the Institutional Effectiveness Website: http://www.uky.edu/ie

Follow us at: https://www.facebook.com/universityofky

The University of Kentucky

From: Molloy, Janelle
Sent: Monday, August 15, 2016 11:22 AM
To: Alexander-Snow, Mia
Cc: Molloy, Janelle
Subject: Radiation sciences PhD

Hi Mia,
I am finally getting around to reviewing the latest version of the CPE full proposal and associated documents. In an earlier communication, I provided a corrected version of the full proposal (see attached word document). I compared this to the version you sent (see .pdf file attached) and noted that some, but not all of my recommended changes were included.

I am quite frankly, losing track of the sequence and changes. I know that the CPE full proposal needs to match certain items in previous submissions and be consistent with versions that are moving through the senate process. Would you mind comparing the changes proposed in the word document to the version in the pdf and let me know whether those changes were intentionally omitted or just an oversight. They are not critical, but some of them are more than 'minor'. Thank you. I have my head wrapped around this again now so will be able to respond in a more timely manner going forward.

Thank you for all your help.

Janelle A.Molloy, PhD, FAAPM
Professor and Director, Medical Physics
Department of Radiation Medicine
Markey Cancer Center, Room CC061
800 Rose St
Lexington, KY 40536
jmo222@email.uky.edu
859-257-7612 (w)
859-330-6293 (pager)
https://radiationmedicine.med.uky.edu/radiation-sciences-graduate-program

UNIVERSITY OF KENTUCKY

Schroeder, Margaret <mmohr2@g.uky.edu>

Radiation and Radiological Sciences PhD

Jackson, Brian A <Brian.Jackson@uky.edu> Wed, Nov 23, 2016 at 7:13 PM
To: "Molloy, Janelle" <janelle.molloy@uky.edu>, "Margaret Schroeder (mmohr2@g.uky.edu)" <mmohr2@g.uky.edu>

Hi Janelle:

This works for me.

Happy Thanksgiving!

Brian

Brian A. Jackson, Ph.D.
Interim Dean
The Graduate School
University of Kentucky
Lexington, KY 40506-0033
Tel: 859.257.7126
E-Mail: brian.jackson@uky.edu
Web: www.gradschool.uky.edu

From: Molloy, Janelle
Sent: Wednesday, November 23, 2016 2:36:15 PM
To: Jackson, Brian A; Margaret Schroeder (mmohr2@g.uky.edu)
Cc: Molloy, Janelle
Subject: RE: Radiation and Radiological Sciences PhD

Attached are the following regarding our discussion of the RAS PhD program.

Letter of support from Dean DiPaolo

Letter of clarification regarding pathways into and through the PhD program.

Revised forms “Request to Classify Proposed program” and “Doctoral NEW Radiation Sciences…” to remove or clarify references to existing MS program.

I believe this completes the tasks that were on my ‘to do ‘ list.

Brian, if you could reply affirmatively to the following verbiage then we can include that in the proposal.

"The Graduate School will permit students in the Radiation Sciences MS program to transfer into the PhD program prior to completion of the first spring semester. In such circumstances, coursework taken up to that point will accrue towards the PhD program. "

Janelle A.Molloy, PhD, FAAPM

Professor and Director, Medical Physics

Department of Radiation Medicine

Markey Cancer Center, Room CC061

800 Rose St

Lexington, KY 40536

jmo222@email.uky.edu

859-257-7612 (w)

859-330-6293 (pager)

https://radiationmedicine.med.uky.edu/radiation-sciences-graduate-program

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From: Jackson, Brian A
Sent: Saturday, November 12, 2016 6:25 PM
To: Molloy, Janelle; Margaret Schroeder (mmohr2@g.uky.edu)
Subject: Re: Radiation and Radiological Sciences PhD

Hi Janelle:

Many thanks for the attached document. One suggestion regarding the legacy MS transfer pathway, I would recommend that you add verbiage to the effect that this is subject to approval (for example of your Graduate Affairs Committee or equivalent), perhaps adding set criteria (graduate GPA, performance in specific courses etc.); it currently reads as if the transfer would be automatic if the student so-wishes.

Best,

University of Kentucky
College of Medicine
Office of the Dean

To Whom It May Concern,

I am pleased to confirm my support for the proposed PhD program in Radiation and Radiological Sciences. I understand that the program will be housed in the Department of Radiation Medicine and will be provided via collaboration with the Department of Radiology. It will share much of the didactic coursework with the existing MS in Radiological Sciences program.

In support of this initiative, we have created, and are actively recruiting for, an additional faculty member to join the existing Medical Physics faculty in the Department of Radiation Medicine. This position will provide leadership, mentoring and instruction for the PhD program, in addition to providing clinical support services.

The proposed PhD program represents an important evolution in fulfilling our academic and clinical missions. The financial and staffing resources required for this program were reviewed in detail by the College of Medicine financial leadership and we are fully supportive of its creation.

Respectfully,

Robert S. DiPaola, M.D.
Dean, College of Medicine
Vice President for Clinical Academic Affairs

Molloy, Janelle

From: Randall, Marcus E
Sent: Wednesday, November 16, 2016 11:19 AM
To: Songer, Cheryl A; Huddleston, Alyssa A
Cc: Molloy, Janelle
Subject: RE: letter from Dean

Yes, fine. Tx much.

From: Songer, Cheryl A
Sent: Wednesday, November 16, 2016 11:18 AM
To: Randall, Marcus E; Huddleston, Alyssa A
Subject: RE: letter from Dean

Dr. Randall,

I was finally able to speak with Dean DiPaola regarding this. If the verbiage below is what you want I will go ahead and place on letterhead and have him sign. Is that ok?

Thank you,

Cheryl Songer
Admin Services Assistant Senior
COM Dean's Office
800 Rose Street, MN 150
859-257-3861

From: Randall, Marcus E
Sent: Thursday, November 10, 2016 8:25 AM
To: Huddleston, Alyssa A <alyssa.huddleston@uky.edu>; Songer, Cheryl A <cheryl.songer@uky.edu>
Cc: DiPaola, Robert S <RSDiPaola@uky.edu>
Subject: FW: letter from Dean

Alyssa and Cheryl,
I know that the Dean is out until next week. Please see below, and if he is OK with it, provide a letter of support for the PhD physics program.
Regards, Marc

From: Molloy, Janelle
Sent: Thursday, November 10, 2016 8:23 AM
To: Randall, Marcus E
Subject: letter from Dean

Marc,
If you agree with the content, would you mind forwarding this verbiage to Dean DiPaola and request that he place it on his letterhead and sign. I or Rachel can pick it up from his office.

Thanks

To Whom It May Concern,
I am pleased to confirm my support for the proposed PhD program in Radiation and Radiological Sciences. I understand that the program will be housed in the Department of Radiation Medicine and will be provided via collaboration with the Department of Radiology. It will share much of the didactic coursework with the existing MS in Radiological Sciences program.
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The proposed PhD program represents an important evolution in fulfilling our academic and clinical missions. The financial and staffing resources required for this program were reviewed in detail by the College of Medicine financial leadership and we are fully supportive of its creation.

Respectfully,

Robert S. DiPaola, M.D.

Janelle A.Molloy, PhD, FAAPM
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https://radiationmedicine.med.uky.edu/radiation-sciences-graduate-program

Brothers, Sheila C

From: Schroeder, Margaret <m.mohr@uky.edu>
Sent: Friday, December 02, 2016 12:31 PM
To: Brothers, Sheila C; McCormick, Katherine
Cc: Abel, Mark G
Subject: Proposed GC: High Performance Coaching
Attachments: High Performance Coaching Certificate FINAL DRAFT 11.30.16.pdf; High Performance Coaching Certificate FINAL DRAFT 11.30.16.pdf

Proposed New Graduate Certificate: High Performance Coaching

This is a recommendation that the University Senate approve the establishment of a new Graduate Certificate: High Performance Coaching, in the Department of Kinesiology and Health Promotion within the College of Education.

Rationale for the Certificate:

The field of High Performance Coaching is a relatively new profession in the United States that is quickly gaining popularity and creating new employment opportunities. Collegiate and professional teams are hiring High Performance Coaches to optimize athlete development. The role of the High Performance Coach is to collaborate with other team specialists to enhance the performance of the athlete. Traditionally, athletes' consulted with Nutritionists, Sport Psychologists, Sports Medicine personnel, and Strength and Conditioning Coaches independently. Contemporarily, it has become the role of the High Performance Coach to collaborate with these professionals, collect additional physiological data and integrate this information to enhance athletes' performance. Currently, there are no academic programs in the United States to prepare professionals for the unique needs of a High Performance Coach.

Please find the revised certificate attached.

Best-

Margaret

Margaret J. Mohr-Schroeder, PhD | Associate Professor of STEM Education - Mathematics | COE Faculty Council Vice Chair | SAPC University Senate Committee Chair | University Senator/Senate Council Member | Secondary Mathematics Undergraduate Program Chair | | Department of STEM Education | University of Kentucky | www.margaretmohrschroeder.com | Schedule a Meeting with Me

A graduate certificate shall have a clear and focused academic topic or competency as its subject, meet a clearly defined educational need of a constituency group, such as required continuing-education or accreditation for a particular profession, respond to a specific state mandate or provide a basic competency in an emerging (preferably interdisciplinary) topic. Certificates are minimally nine graduate credit hours but typically no more than 15. Completed forms must receive appropriate department/school approval and sent to the college for review.

Once approved at the college level, your college will send the proposal to the Graduate Council for review. Once approved at the Graduate Council, the Graduate Council will send the proposal to the Senate Council office for additional review via a committee and then to the Senate Council. Once the Senate Council has approved the proposal, it is moved to the University Senate. Once approved by that body, the University Senate will send the proposal to the Registrar to be included in the Bulletin. The contact person listed on the form will be informed throughout this process.

By default, graduate certificates shall be approved for a period of six (6) years. Re-approvals are also for six years.

1. GENERAL INFORMATION					
1a	Date of contact with Institutional Effectiveness[1]:	11/20/2015			
	☒ Appended to the end of this form is a PDF of the reply from Institutional Effectiveness.				
1b	Home college: *Education*				
1c	Home educational unit (department, school, college[2]): *Department of Kinesiology and Health Promotion*				
1d	Proposed certificate name: *High Performance Coaching*				
1e	CIP Code (provided by Institutional Effectiveness):	*31.0505*			
1f	Requested effective date:	☒ Fall semester following approval.	OR	☐ Specific Date[3]: *Fall 20*	
1g	Contact person name: *Mark Abel*	Email: *mark.abel@uky.edu*	Phone: *257-4091*		

2. OVERVIEW	
2a	Provide a brief description of the proposed new graduate certificate. *(300 word limit)*
	The field of High Performance Coaching is a relatively new profession in the United States that is quickly gaining popularity and creating new employment opportunities. Collegiate and professional teams are hiring High Performance Coaches to optimize athlete development. The role of the High Performance Coach is to collaborate with other team specialists to enhance the performance of the athlete. Traditionally, athletes' consulted with Nutritionists, Sport Psychologists, Sports Medicine personnel, and Strength and Conditioning Coaches independently. Contemporarily, it has become the role of the High Performance Coach to collaborate with these

[1] You can reach Institutional Effectiveness by phone or email (257-2873 or institutionaleffectiveness@uky.edu).
[2] Only cross-disciplinary graduate certificates may be homed at the college level.
[3] Certificates are typically made effective for the semester following approval. No program will be made effective unless all approvals, up through and including University Senate approval, are received.

	professionals, collect additional physiological data and integrate this information to enhance athletes' performance. Currently, there are no academic programs in the United States to prepare professionals for the unique needs of a High Performance Coach.			
2b	This proposed graduate certificate (check all that apply):			
	☒ Has a clear and focused academic competency as its subject.			
	☐ Meets a clearly defined educational need of a constituency group (e.g. continuing education or licensing)			
	☐ Responds to a specific state mandate.			
	☒ Provides a basic competency in an emerging, preferably interdisciplinary, topic.			
2c	**Affiliation.** Is the graduate certificate affiliated with a degree program? *(related to 3c)*	Yes ☒	No ☐	
	If "yes," include a brief statement of how it will complement the program. If "no," incorporate a statement as to how it will provide an opportunity for a student to gain knowledge or skills not already available at UK. *(300 word limit)*			
	The Graduate Certificate in High Performance Coaching will complement the graduate program in Exercise Science by adding a curriculum that will enhance the academic preparation for individuals interested in becoming a Strength and Conditioning Coach, High Performance Coach, or Fitness Professional.			
2d	**Duplication.** Are there similar regional or national offerings?	Yes ☐	No ☒	
	If "Yes," explain how the proposed certificate will or will not compete with similar regional or national offerings.			
	Despite an increased demand for prepared High Performance Coaches, we have not been able to identify any programs in the United States.			
2e	**Rationale and Demand.** State the rationale for the new graduate certificate and explain the need for it (e.g. market demand, student requests, state mandate, interdisciplinary topic). *(400 word limit)*			
	Market Demand: There has been an increase in the number of High Performance Coaching positions at professional and collegiate levels in the United States; a trend that has been evident in other countries for quite some time. There are limited academic programs to prepare individuals for these positions. Therefore, this program would be the first of its kind in the United States. *Interdisciplinary Topic: The Graduate Certificate in High Performance Coaching represents an interdisciplinary approach to Coaching. As demanded by the profession, the High Performance Coach must possess skills in Exercise Physiology, Strength and Conditioning, Sport Psychology, Leadership, and Analytics. Therefore the curriculum will reflect coursework in these interdisciplinary content areas.*			
2f	**Target student population.** Check the box(es) that apply to the target student population.			
	☒ Currently enrolled graduate students.			
	☐ Post-baccalaureate students.			
2g	Describe the demographics of the intended audience. *(150 word limit)*			
	The intended demographic is primarily graduate students in Exercise Science. However, this Certificate may also attract students (as a complementary certificate/training) currenlty enrolled in other graduate programs on campus (e.g., Rehabilitation Sciences, Nutrition, etc.).			
2h	**Projected enrollment.** What are the enrollment projections for the first three years?			
		Year 1	*Year 2* *(Yr. 1 continuing + new*	*Year 3* *(Yrs. 1 and 2 continuing +*

			entering)	*new entering)*
	Number of Students	*3*	*8*	*13*

2i	**Distance learning (DL).** Initially, will any portion of the graduate certificate be offered via DL?			Yes ☐	No ☒
	If "Yes," please indicate below the percentage of the certificate that will be offered via DL.				
	1% - 24% ☐	25% - 49% ☐	50% - 74% ☐	75 - 99% ☐	100% ☐
	If "Yes," describe the DL course(s) in detail, including the number of required DL courses. *(300 word limit)*				

3. ADMINISTRATION AND RESOURCES

3a	**Administration.** Describe how the proposed graduate certificate will be administered, including admissions, student advising, retention, etc. *(150 word limit)*		
	Applications for the High Performance Coaching Certificate will be sent to a staff assistant. Then, Certificate Facutly (listed below) will review the applications and determine acceptence into the Certificate Program. Upon acceptence, a Certificate faculty member will advise the student regarding sequence of courses, identifying an appropriate elective and evaluating the student's performance.		
3b	**Faculty of Record and Certificate Director.** *(related to 2c)* **T**he faculty of record consists of the graduate certificate director and other faculty who will be responsible for planning and participating in the certificate program. The director must be a member of the Graduate Faculty of the University and is appointed by the dean of the Graduate School. The faculty of record must be comprised of three or more faculty. At least three members of the graduate certificate's faculty of record must be members of the Graduate Faculty.		
	The graduate certificate is affiliated with a degree program.	Yes ☒	No ☐
	If "Yes," list the name of the affiliated degree program below. If "No," describe below the process for identifying the faculty of record and the certificate director, including selection criteria, term of service, and method for adding and removing members. *(150 word limit)*		
	Graduate Program in Exercise Science - Faculty Certificate Program Faculty: Mark Abel, PhD, CSCS*D, TSAC*D, USAW, Associate Professor, Full Graduate Faculty Rob Shapiro, PhD, Associate Dean, Professor, Full Graduate Faculty Marc Cormier, PhD, CC-AASP Lecturer Steve Parker, EdD, Associate Dean, Associate Professor, Associate Graduate Faculty Justin Nichols, PhD, Lecturer		
3c	**Course utilization.** Will this graduate certificate include courses from another unit(s)?	Yes ☐	No ☒
	If "Yes," two pieces of supporting documentation are required. ☐ Check to confirm that appended to the end of this form is a letter of support from the other units' chair/director[4] from which individual courses will be used. The letter must include demonstration of true collaboration between multiple units[5] and impact on the course's use on the home educational unit.		

[4] A dean may submit a letter only when there is no educational unit below the college level, i.e. there is no department/school.

	☐ Check to confirm that appended to the end of this form is verification that the chair/director of the other unit has consent from the faculty members of the unit. This typically takes the form of meeting minutes.		
3d	**Financial Resources.** What are the (non-course) resource implications for the proposed graduate certificate, including any projected budget needs? *(300 word limit)*		
	We will likely need to hire an instructor to teach the Analytics course.		
3e	**Other Resources.** Will the proposed certificate utilize resources (e.g. departmentally controlled equipment or lab space) from additional units/programs?	Yes ☐	No ☒
	If "Yes," identify the other resources that will be shared. (*150 word limit*)		
	If "Yes," two pieces of supporting documentation are required. ☐ Check to confirm that appended to the end of this form is a letter of support from the appropriate chair/director[4] of the unit whose "other resources" will be used. ☐ Check to confirm that appended to the end of this form is verification that the chair/director of the other unit has consent from the faculty members of the unit. This typically takes the form of meeting minutes.		
4. IMPACT			
4a	**Other related programs.** Are there any related UK programs and certificates?	Yes ☐	No ☒
	If "Yes," describe how the new certificate will complement these existing UK offerings. *(250 word limit)*		
	If "Yes," two pieces of supporting documentation are required. ☐ Check to confirm that appended to the end of this form is a letter of support from each potentially-affected academic unit administrators. ☐ Check to confirm that appended to the end of this form is verification that the chair/director has input from the faculty members of the unit. This typically takes the form of meeting minutes.		
5. ADMISSIONS CRITERIA AND CURRICULUM STRUCTURE			
5a	**Admissions criteria.** List the admissions criteria for the proposed graduate certificate. *(150 word limit)*		
	• *Students are required to take four core KHP classes as requirements for the Certificate, as well as one elective course.* • *In order to remain in good standing, the Graduate School requires that a student must have a minimum GPA of 3.0 in the set of courses required for completion of the graduate certificate in order to be awarded the certificate.* • *Courses taken within two years prior to admission to the certificate can be used in the certificate.* • *Certificates will only be awarded to students who have completed a four-year bachelors degree.* • *The Director approves the individual certificate curriculum for each student and informs*		

[5] Show evidence of detailed collaborative consultation with such units early in the process.

	the Registrar when the certificate is complete and may be awarded.

5b **Core courses.** List the required core courses below.

Prefix & Number	Course Title	Credit Hrs	Course Status[6]
KHP 690	*Applied Foundations of High Performance*	*3*	New
KHP 691	*Analytics in High Performance*	*3*	New
KHP 683	*Leadership, Theory, and Practice*	*3*	No Change
KHP 547	*Psychology of Sport and Physical Activity*	*3*	No Change
	****Please select from the following electives to achieve a minimum of 15 credit hours for the Certificate (see list of suggested electives below)*		Select one....
	Total Credit Hours of Core Courses:		

5c **Elective courses.** List the electives below.

Prefix & Number	Course Title	Credit Hrs	Course Status[7]
KHP 577	*Practicum in Exercise Science*	*3-6 cr*	No Change
KHP 695	*Independent Study*	*1-3 cr*	No Change
KHP 580 *KHP 550*	*Group Dynamics in Sport and Physical Activity* *Principles of Resistance Training*	*3* *3*	No Change
CNU 605	*Wellness in Sport Nutrition*	*3*	No Change
KHP 720 *AT 700*	*KHP 720: Sports Medicine* *AT 700: Muscle Mechanics*	*3* *3*	No Change
STA 671/672	*Regression and Correlation / Design and Analysis of Experiments*	*2 cr each*	No Change

5d	Are there any other requirements for the graduate certificate? If "Yes," note below. *(150 word limit)*	Yes ☐	No ☒
	Select 1 of the above electives		

[6] Use the drop-down list to indicate if the course is a new course ("new"), an existing course that will change ("change"), or if the course is an existing course that will not change ("no change").
[7] Use the drop-down list to indicate if the course is a new course ("new"), an existing course that will change ("change"), or if the course is an existing course that will not change ("no change").

5e	Is there any other narrative about the graduate certificate that should be included in the Bulletin? If "Yes," please note below. *(300 word limit)*	Yes ☐	No ☐
	The field of High Performance Coaching is a relatively new profession in the United States that is quickly gaining popularity and creating new employment opportunities. Collegiate and professional teams are hiring High Performance Coaches to optimize athlete development. The role of the High Performance Coach is to collaborate with other team specialists to enhance the performance of the athlete and requires an interdisciplinary skillset encompassing exercise physiology, strength and conditioning, analytics, leadership, and sport psychology.		

6. ASSESSMENT

6a	**Student learning outcomes.** Please provide the student learning outcomes for the graduate certificate. List the knowledge, competencies, and skills (learning outcomes) students will be able to do upon completion. (Use action verbs, not simply "understand.") *(250 word limit)*
	• *The certificate requires that students apply physiological principles related to strength and conditioning methodologies.* • *Students completing the certificate will demonstrate the leadership skills required to be an effective High Performance Coach.* • *Students will demonstrate the ability to analyze performance metrics to design individualized programs to facilitate recovery and enhance performance.* • *Students will be able to apply psychological principles to optimize athletic performance.*
6b	**Student learning outcome (SLO) assessment.** How and when will student learning outcomes be assessed? Please map proposed measures to the SLOs they are intended to assess. Do not use grades or indirect measures (e.g. focus groups, surveys) as the sole method. Measures likely include artifacts such as course-embedded assessment (e.g., portfolios, research papers or oral presentations); and course-embedded test items (embedded test questions, licensure/certification testing, nationally or state-normed exams). *(300 word limit)*
	KHP 690 - Applied Foundations of High Performance: Take in 1st year, Spring term *Measures: Oral presentations (seminar format); literature review paper* *Benchmark: Students are required to achieve proficiency in describing physiological principles associated with strength and conditioning.* *KHP 691 - Analytics in High Performance: Take in 2nd year, Fall term* *Measures: Data analysis and interpretation project* *Benchmark: Students are required to achieve proficiency in analyzing and interpreting data sets.* *KHP 547-Psychology of Sport and Physical Activity: Take in 2nd year, Spring term* *Measures: Development of a Resource Manual* *Benchmark: Students are required to achieve proficiency in developing a resource manual for a specific aspect of sport psychology.* *KHP 683 - Leadership, Theory, and Practice: Take in 2nd year, Spring term* *Measures: Group work, projects, and presentations* *Benchmark: Students are required to achieve proficiency in demonstraing leadership skills through group work, projects, and presentations.* *In addition, the student will be required do demonstrate proficiency in the above content areas in the Graduate School's (required) final Oral Examination.*

6c	**Certificate outcome assessment[8].** Describe evaluation procedures for the proposed graduate certificate. Include how the faculty of record will determine whether the program is a success or a failure. List the benchmarks, the assessment tools, and the plan of action if the program does not meet its objectives. *(250 word limit)*
	Evaluation procedures for the High Performance Coaching Certificate will include achieving the proposed student enrollment benchmarks outlined in 2h. Assessment tools include a survey of existing students to identify the students' perception of the Certificate's quality and perceived deficiencies. Modifications of specific courses and the certificate requirements will be considered and implemented if warranted and determined to be feasible. These assessments will be evaluated on an annual basis.

7. OTHER INFORMATION

7a	Is there any other information about the graduate certificate to add? *(150 word limit)*
	NA

8. APPROVALS/REVIEWS

Information below does not supersede the requirement for individual letters of support from educational unit administrators and verification of faculty support (typically takes the form of meeting minutes).

		Reviewing Group Name	**Date Approved**	**Contact Person Name/Phone/Email**
8a	(Within College) *In addition to the information below, attach documentation of department and college approval. This typically takes the form of meeting minutes but may also be an email from the unit head reporting department- and college-level votes.*			
		KHP Dept. Faculty	*10/22/2015*	*Ben Johnson / 257-5827 / bfjohnson@uky.edu*
				/ /
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8b	(Collaborating and/or Affected Units)			
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		Date Approved	**Contact Person Name**
8c	(Senate Academic Council)		
	Health Care Colleges Council (if applicable)		
	Graduate Council		

[8] This is a plan of how the certificate will be assessed, which is different from assessing student learning outcomes.

Graduate Certificate in High Performance Proposal

Overview

The field of High Performance Coaching is a relatively new profession in the United States that is quickly gaining popularity and creating new employment opportunities. Collegiate and professional teams are hiring High Performance Coaches to optimize athlete development. The role of the High Performance Coach is to collaborate with other team specialists to enhance the performance of the athlete. Traditionally, athletes' consulted with Nutritionists, Sport Psychologists, Sports Medicine personnel, and Strength and Conditioning Coaches independently. Contemporarily, it has become the role of the High Performance Coach to collaborate with these professionals, collect additional physiological data and integrate this information to enhance performance. Currently, there are few academic programs in the United States to prepare professionals for the unique needs of a High Performance Coach.

Certificate Standards

Dedicated to the University of Kentucky's mission of providing excellence in teaching, research, and service, and developing innovative partnerships, the Graduate Certificate in High Performance promotes a broad array of values, knowledge, and skills essential to the field of athletic development. As such, the proposed Graduate Certificate has the potential to attract high quality students.

- In order to remain in good standing, the Graduate School requires that a student must have a minimum GPA of 3.0 in the set of courses required for completion of the graduate certificate in order to be awarded the certificate.
- Students are required to take four core KHP classes as requirements for the Certificate, as well as one elective course.
- Courses taken within two years prior to admission to the certificate can be used in the certificate.
- Certificates will only be awarded to students who have completed a four-year bachelors degree.
- The Director approves the individual certificate curriculum for each student and informs the Registrar when the certificate is complete and may be awarded.

Administrative Structure

The Faculty Director for the High Performance Graduate Certificate will be Dr. Mark Abel, Associate Professor of Exercise Physiology, Director of the Exercise Physiology Laboratory, and an instructor in the Certificate curriculum. Dr. Abel will work with the affiliated faculty on any and all curricular components.

Certificate Curriculum

The Certificate curriculum is focused on enhancing the students' understanding of: physiological and applied concepts related to strength training and conditioning; analytical aspects related to physiological readiness and the stress-response to physiological and psychological stimuli; leadership dynamics within an athletic setting; and psychology of athletic performance.

Collectively, students will demonstrate a proficiency in these content areas to provide the foundation for career as a High Performance Coach and the following positions: Sports scientist, High Performance Manager, Strength and Conditioning Coach, Professional Coach, Fitness Coach, Rehabilitation Coach, Performance Analyst, Fitness Advisor, Sports Science Manager.

Certificate Learning Outcomes

- The certificate requires that students apply physiological principles related to strength and conditioning methodologies.
- Students completing the certificate will demonstrate the leadership skills required to be an effective High Performance Coach.
- Students will demonstrate the ability to analyze performance metrics to design individualized programs to facilitate recovery and enhance performance.
- Students will be able to apply psychological principles to optimize athletic performance.

Certificate Core Courses

Students must enroll in each of the following courses:

KHP 690 –Applied Foundations of High Performance
(*New course*: To be offered in Spring; To be taken in the 1st year Spring term for Exercise Science graduate students; 3 credits) –Instructor: Dr. Mark Abel
Prerequisite: Graduate level course in Exercise Physiology (e.g., KHP 620) or consent of instructor.

This course evaluates physiological responses to exercise stimuli including a detailed examination of neuromuscular, metabolic and morphological skeletal muscle adaptations. In addition, factors that affect force production, advanced periodization, concurrent training, and recovery strategies are examined. Finally, applied training strategies and evaluations are discussed and performed.

KHP 691 – Analytics in High Performance (*New course*; To be taken in the 2nd year Fall term; 3 credits) – Instructor: Dr. Mark Abel / TBD

This course examines the use of athlete monitoring systems and other metrics to evaluate the stress-response relationship. Functional systems theory and other stress-response theories are discussed and applied to training and recovery strategies to optimize athlete performance. An emphasis is placed on data analysis and visualization of data trends.

KHP 547 - Psychology of Sport and Physical Activity (*Existing course*; To be taken in the 2nd year Spring term; 3 credits) – Instructor: Dr. Marc Cormier

The field of sport psychology is an interdisciplinary science that explores the relationship between various psychological factors and participation in sport and/or physical activity. This course is designed to provide an in depth overview of the psychological aspects of sport.

Throughout the course, participants will explore, sport psychology theory, research, and various psychological methods of sport- and exercise-related performance enhancement. Additionally, specific ethical and legal aspects of providing sport performance enhancement services to various clientele (e.g., athletes, coaches, parents, etc.). Specific course objectives include the following: To establish a solid theoretical foundation related to applied sport psychology; To understand the impact of psychological factors on performance in sport and physical activity; To acquire the necessary skills and knowledge about applied sport psychology that can be applied in various personal and professional situations.

KHP 683 - Leadership, Theory, and Practice (Existing course; To be taken in the 2nd year Spring term; 3 credits) –Instructor: Dr. Justin Nichols

The course examines the trends in leadership in varied segments and businesses in the sports industry. The focus is on effective leadership styles, principles, models, and practices as they relate to sport organizations. This includes leadership and ethical behavior, inter- and intra-organizational leadership strategies, management theory and practice, and organizational culture.

Elective Courses (Take one of the following courses)

KHP 695 – Independent Study (Offered Summer, Fall, & Spring; 1-3 credits) - Instructor: Certificate faculty or other approved faculty.

This course is designed to allow the student to work directly with an athletic team to assist them in meeting their needs. Based on the circumstances, the student may be required to provide a literature review on a relevant topic; propose a plan that meets the team's needs; collect, analyze, and interpret data as appropriate; and provide a written and oral presentation to the to the instructor and the team.

KHP 580 – Group Dynamics in Sport and Physical Activity (Existing course; Offered Spring; 3 cr) – Instructor: Dr. Marc Cormier

This course provides a comprehensive analysis of sport and physical activity from both social psychological and group dynamics perspectives. Sport and physical activity are highly social environments that can have a wide and far-reaching influence upon those who participate in them. This class will focus on and provide an overview of the major social and group dynamic factors that affect those involved in sport. In-depth group discussions will occur and students will be given practical assignments to ensure that they are able to apply this information in real world settings.

KHP 577 – Practicum in Exercise Science (3-6 credits)
Extensive practical work experiences with qualified practitioners and KHP faculty. Repeatable up to 6 credit hours. Prereq: KINE, HEPR, KHPR majors only

CNU 605 – Wellness in Sports Nutrition (3 credits)
Emphasis is directed toward nutrition as applied to prevention of disease through lifestyle management and the application of nutrition in exercise and sport. Targeted focus areas are: body composition and energy expenditure, the metabolic basis of weight management, nutrient needs throughout the lifecycle, the metabolic changes associated with obesity, behavioral management of obesity, nutrient metabolism and exercise, water and electrolyte balance during exercise, nutritional ergogenic aids, nutrition-strength and performance enhancement. Prereq: PGY 412G, and BCH 401G or equivalent or consent of instructor. (Same as NS/PT 605.)

KHP 720 – Sports Medicine (3 credits)
A study of the basic areas covered in sports medicine with readings and discussions of current international trends in the research and practice in this field. Prereq: Twelve semester hours; credit in the field of biological sciences; consent of instructor. (Same as AT 720.)

STA 671 – Regression and Correlation (2 credits)
Simple linear regression, elementary matrix algebra and its application to simple linear regression; general linear model, multiple regression, analysis of variance tables, testing of subhypotheses, nonlinear regression, step-wise regression; partial and multiple correlation. Emphasis upon use of computer library routines; other special topics according to the interests of the class. Lecture, three hours per week; laboratory, two hours per week for seven and one half weeks. Offered the first or second half of each semester. Prereq: STA 570 or STA 580.

STA 672 – Design and Analysis of Experiments (2 credits)
Review of one-way analysis of variance; planned and unplanned individual comparisons, including contrasts and orthogonal polynomials; factorial experiments; completely randomized, randomized block, Latin square, and split-plot designs: relative efficiency, expected mean squares; multiple regression analysis for balanced and unbalanced experiments, analysis of covariance. Lecture, three hours per week; laboratory, two hours per week for seven and a half weeks. Offered the first or second half of each semester. Prereq: STA 671.

STA 677 – Applied Multivariate Methods
Survey of multivariate statistical techniques. The multivariate normal distribution; the general linear model; general procedures for parameter estimation and hypothesis testing in the multivariate case; Hotelling's T2, multivariate analysis of variance and covariance; structural models for the covariance matrix; utilization of existing computer programs. Prereq: STA 671 and 672.

Total required certificate hours: 15 hours
The curriculum for this certificate in High Performance was developed in consultation with faculty members at University of Kentucky and High Performance Coaches currently practicing in the field. We anticipate that this 15-hour Graduate Certificate will draw students from the Master's Program in Exercise Physiology and other graduate programs across campus.

Core Faculty Affiliated with the High Performance Certificate:
Mark Abel, PhD, CSCS*D, TSAC*D, USAW, Associate Professor, Full Graduate Faculty
Rob Shapiro, PhD, Associate Dean, Professor, Full Graduate Faculty

Marc Cormier, PhD, CC-AASP Lecturer
Steve Parker, EdD, Associate Dean, Associate Professor, Associate Graduate Faculty
Justin Nichols, PhD, Lecturer

Faculty Meeting Minutes

October 22, 2015

Present: Ben Johnson, Melody Noland, Mike Pohl, Aaron Beighle, Brad Fleenor, Randy Crist, Lucian Taylor, Kristen Mark, Rosie LaCoe, Justin Nichols, Brian Wallace, Liz Fettrow, Marc Cormier, Haley Bergstrom, Steve Parker, Mark Abel, Jonell Pedescleaux, Rob Shapiro, Joaquin Fenollar, Nick Trubee, Stephanie Bennett, Mindy Ickes, Jody Clasey, Heather Erwin, Kevin Flora, Steve Erena

Not present: Jill Day, Lance Bollinger

1. **Approval of Minutes**
   Dr. Mark noted that Justin Nichols was not present at the September meeting and should be removed from the list of attendees. A motion was made and seconded to approve the minutes with the suggested revision. All were in favor.

2. **Chair Comments**
   - Dr. Johnson requested ideas for upgrading the COE/KHP website to help with graduate student recruitment. Please communicate ideas to him.
   - The NCATE visit is November 15 and 16, 2016.
   - There is a SACS deadline October 31, 2016.
   - Student learning outcomes are due by October 31st.
   - The Dean would like to involve graduate students more in teaching in an effort to reduce the number of PTIs. There is also a possibility that if lecturers leave for a new position that graduate students would be considered for teaching the open classes.
   - Please look at the COE Rules Document and provide feedback to Dr. Johnson
   - Dr. Johnson has almost completed faculty interviews. He will be in contact with those he has not met with yet.

3. **Retention Initiative**
   Kevin Flora presented his findings regarding retention of first time, full-time freshman. He reported that there is a four times cost savings in focusing on retention of current students than focusing on recruitment of new students. He reported statistical findings of retention percentages from fall 2009 through fall 2015 both in the College of Education and the Department of Kinesiology & Health Promotion. Retention is defined as a student returning to UK for the fall semester of their sophomore year even if they change majors.

   There were three suggestions to increase retention. The first is early alerts. Contact students as soon as possible if they are not attending class or for any other issues you are encountering. The second was for faculty to reach out to new freshman and introduce themselves and invite them to meet to discuss our programs in depth. Kevin suggested dividing up the incoming KHP majors evenly throughout the faculty to send an email to initiate this contact. He will send out an email with wording that faculty can use to contact students. The third suggestion was to match upperclassmen with freshman for informal mentoring.

   Kevin noted that quite a few students who transferred to KHP came from Undergraduate Studies. It would be helpful to raise awareness of our programs with the advisors from US and to attend their major's fair.

Dr. Fenollar asked if students who took UK 101 had a higher percentage retention rate. He wondered if this class could be mandatory for all freshman. Kevin will check on the impact that this class has on retention.

Dr. Ickes commented that QPR (Question, Persuade Refer) training is available to faculty which is a method of identifying students at risk. She highly recommended that everyone attend a training session.

4. **DOE Fairness Document**

The DOE fairness document was drafted in an attempt to leverage faculty assignments in regard to low enrollment/high enrollment classes, credit hour allocation and research production. KHP faculty gave feedback about classes/roles that they felt ought to have increased percentages. These included mentoring masters and doctoral students, teaching clinical courses, student teaching supervision, practicum classes and advising. Dr. Ickes was concerned about those professors who only teach graduate classes as these classes have the lowest enrollment and this is reflected on the DOE. Dr. Shapiro commented that chairs may use their discretion in all aspects of assigning DOE percentages. Additional feedback on the document may be addressed to Dr. Erwin or Dr. Johnson.

5. **Graduate Certificate in High Performance**

Dr. Abel presented a proposal for a graduate certificate in High Performance. This is an evolving field in which there are few collegiate programs offered at this time. It combines leadership, psychology, strength coaching, nutrition and analytic skills. Four new courses would be added for the curriculum. Feedback was elicited from the faculty. The grade point average necessary to graduate needs to be changed from 2.75 to 3.0. Dr. Mark expressed concern about having enough faculty to cover the new classes since current Exercise Science faculty already have a full-time load. Dr. Abel felt that this would not be a problem as they would offer classes on a rotational basis from year to year. Dr. Nichols reported that the proposal would have to go through the Provost's office before it was presented to the courses and curricula committee. Dr. Shapiro made a motion to pass the proposal, seconded by Dr. Fenollar. All were in favor.

6. **Health Promotion Minor**

Dr. Noland is promoting the health promotion minor program and has created a flier that she distributed to faculty. The number of minors has decreased in the past year.

7. **Announcements**

Dr. Fenollar announced that there will be a video conference on November 19, 2015 at Young Library at 12:00 PM. A vascular surgeon from Spain who uses no anesthesia with certain procedures, will present his method of using the mind to block out pain in the body. All are welcome to attend.

Minutes respectfully submitted by,

Beth Graham

Faculty Meeting Minutes

February 4, 2016

Present: Lucian Taylor, Justin Nichols, Ben Johnson, Heather Erwin, Aaron Beighle, Rosie LaCoe, Kristen Mark, Stephanie Bennett, Liz Fettrow, Haley Bergstom, Brad Fleenor, Rob Shapiro, Lance Bollinger, Randy Crist, Jonell Pedesleaux, Mark Abel, Jody Clasey, Steve Parker, Melody Noland, Brian Wallace, Marc Cormier, Joaquin Fenollar, Jill Day, & Nick Trubee.
Absent: Mike Pohl

Approval of Minutes for November

- Minutes were approved as written from the November meeting.

Comments

- Dr. Trubee has accepted a new position in Cleveland, OH and he will be leaving at the end of the spring 2016 semester. We have several lecture open positions at this time.
- Lecturer positions will be advertised soon and committee's formed.
- Keri needs all syllabi for all classes soon.
- Look at the KHP website and give any suggestions or corrections to Beth.
- Budget cuts for this year and next year, according to the governor's budget cuts for higher education.

Possible DOE Equity Document Changes

- Dr. Erwin & Dr. Abel - Faculty council needs feedback on DOE class credit percentage (12.5% vs 10%), online classes and low enrollment. Fifty hour work week comments are needed and they will take these to faculty council. Faculty should not get the same percentage on a 1 hr. credit class as he or she would receive for a 3 hr. credit class.
- Dr. Cormier– LLC – KHP will be combined with the wellness focus. LLC is already up to 50 students.
- Dr. Parker stated that KHP 101 will be required for all students that will be attending UK. Arts and Sciences are going in the direction of block scheduling. KHP may look into block scheduling also.
- Dr. Johnson advised that retention is one of the topics that the university is working on. A proposal to aid in retention of students was discussed and put forth by the Deans of Education, Communications and Business that will eventually lead to a an undergraduate major (with tracks in each college) in Sport Management.

High Performance Certificate

- Dr. Abel gave information regarding the certificate. Pending the requested revisions, a motion was unanimously carried to modify the new course as a Distance Learning section of KHP 691- Analytics in High Performance as part of the curriculum in the proposed Graduate Certificate in High Performance Coaching. Dr. Nichols also stated that minor changes requested to update SACS-COC learning targets and assessments table, replace Jake Karnes name in DRC and religious liaison contact information, and change "Course Objectives" to "Student Learning Outcomes". Also, contact information for eLearning to be moved to the beginning of the syllabus.

- A motion was unanimously carried to convert KHP 781 – Physiological Foundations in High Performance to KHP 690 – Applied Foundations in High Performance. Justification will be provided to Courses and Curricula for the conversion.

Health Promotion

- Dr. Ickes stated that the Health Promotion faculty is proposing to breakout the option in Health Promotion within the existing Kinesiology degree to ensure that this program area is noted in the student's transcript and on their diploma. 1) list multiple stats classes that will better fulfill our students 2) require KHP 577 – practicum/internship experience for those not doing a thesis (Plan A) 3) increase total required hours to 33 for Plan A and Plan B. A motion was proposed to formalize a Health Promotion option within the existing MS Department of Health and Kinesiology degree. All were voted on and approved unanimously.

Coaching Minor

- Dr. Erwin gave information on the coaching minor. The motion was approved for the KHP proposed coaching minor with amendments of adding KHP 573/473 and KHP 350, as possible electives and the possible inclusion of KMA/KHSAA Safety Certification for credit. The new proposed course KHP 280: Intro to Coaching. Both were voted on and approved unanimously.

Study Abroad Approvals

- Dr. Nichols advised that study abroad classes must be approved each year by Course and Curriculum. Summer classes do not have to be approved, but any full semester classes must be approved for coverage and internal approval.

Seaton Beautification

- Dr. Noland stated that Jeannine Schaefer is giving ideas on updating Seaton. She has some items to give that would update the building, such as furniture, floor lamps, wooden hall benches, easel white boards, chairs, and etc. Some pictures will be hung and some ceiling tiles will be replaced. Several updates will be added in different areas.

Proposals to Provost

- Dr. Johnson gave information on some proposals that he produced at the request of the Dean for her meeting with the Provost. He noted that the only way KHP will be able to make major renovations/additions to Seaton Center is if the Provost provides the money. Dr. Johnson prepared the proposal and shared it with the Chair's Advisory Committee for feedback prior to submitting it to Dean O'Hair. The proposal highlighted the significant challenges presented by the exceptionally large number of KHP majors and the limited number of full-time faculty and classroom/lab facilities we have. These are only proposals at this point. Once feedback is received from the Provost and if/when funding is available, we will formally decide on facility renovation priorities.

Other Announcements

- Dr. Johnson made the announcement that a Childhood Obesity Grant is available, if someone acts immediately. Dr. Fettrow has shown interest and if anyone else is, let Dr. Johnson know.

From: Toland, Michael D
Sent: Wednesday, March 23, 2016 5:57 PM
To: Abel, Mark G <mgabel2@uky.edu>; Bradley, Kelly D <kelly.bradley@uky.edu>; Reese, Robert J <jeff.reese@uky.edu>; Bieber, Jeffery P <jpbieb01@uky.edu>
Subject: RE: New Course

Mark,
Based on the revised syllabus goals and content I don't see any concern or overlap with other courses offered in EDP.
Thanks for checking with us and good luck with the new course.
Michael

Michael Toland, PhD
Associate Professor
Educational Psychology Program - Quantitative & Psychometric Methods
Department of Educational, School, & Counseling Psychology
University of Kentucky
251C Dickey Hall
Lexington, KY 40506-0017
Office phone: 859.257.3395
Skype: toland.md
http://sites.education.uky.edu/apslab/

From: Abel, Mark G
Sent: Wednesday, March 23, 2016 2:02 PM
To: Toland, Michael D; Bradley, Kelly D; Reese, Robert J; Bieber, Jeffery P
Subject: RE: New Course

Hello All,

I want to thank you for reviewing the course objectives for the proposed course: KHP 691-Analytics in High Performance. I have taken your helpful feedback into consideration and revised the course objectives accordingly. Please review the attached syllabi and let me know your thoughts regarding its autonomy from existing courses in your Department.

Thank you,
Mark

Mark Abel, Ph.D., CSCS*D, TSAC-F*D, USAW-L1
Director, Exercise Physiology Laboratory
Associate Professor
Department of Kinesiology and Health Promotion
University of Kentucky
217 Seaton Building
Lexington, KY 40506-0219
Office: (859) 257-4091
Fax: (859) 323-1090

Mark,
This appears to be a much more specialized course. It makes a lot of sense to complete 557 or 558 and then take this class, as indicated by the prereq. I see no issues with this course moving forward. Best, Kelly

Kelly D. Bradley, Ph.D.
Professor; Quantitative Methods
Interim EPE Director of Graduate Studies
Vice-Chair COE Faculty Council
Educational Policy Studies & Evaluation
University of Kentucky; College of Education
131 Taylor Education Building
Lexington, KY 40506
kdbrad2@uky.edu
www.uky.edu/~kdbrad2

From: Abel, Mark G
Sent: Wednesday, March 23, 2016 2:02 PM
To: Toland, Michael D; Bradley, Kelly D; Reese, Robert J; Bieber, Jeffery P
Subject: RE: New Course

Hello All,

I want to thank you for reviewing the course objectives for the proposed course: KHP 691-Analytics in High Performance. I have taken your helpful feedback into consideration and revised the course objectives accordingly. Please review the attached syllabi and let me know your thoughts regarding its autonomy from existing courses in your Department.

Thank you,
Mark

Mark Abel, Ph.D., CSCS*D, TSAC-F*D, USAW-L1
Director, Exercise Physiology Laboratory
Associate Professor
Department of Kinesiology and Health Promotion
University of Kentucky
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Lexington, KY 40506-0219
Office: (859) 257-4091
Fax: (859) 323-1090
mark.abel@uky.edu

From: Toland, Michael D
Sent: Monday, February 15, 2016 1:08 PM
To: Abel, Mark G <mgabel2@uky.edu>; Bradley, Kelly D <kelly.bradley@uky.edu>; Toland, Michael D <toland.md@uky.edu>; Reese, Robert J <jeff.reese@uky.edu>; Bieber, Jeffery P <jpbieb01@uky.edu>
Subject: RE: New Course

Mark
Please let us know if we can do any more to help as we know first hand how much work goes into this process.
Warmly
Michael

Sent from my Sprint Samsung Galaxy S® 6.

-------- Original message --------
From: "Abel, Mark G" <mgabel2@uky.edu>
Date: 2/15/2016 12:49 PM (GMT-05:00)
To: "Bradley, Kelly D" <kelly.bradley@uky.edu>, "Toland, Michael D" <toland.md@uky.edu>, "Reese, Robert J" <jeff.reese@uky.edu>, "Bieber, Jeffery P" <jpbieb01@uky.edu>
Subject: RE: New Course

Kelly, Michael, et al.,

Thank you for your prompt feedback. We will reflect on this information and redirect accordingly. I will resubmit our revisions to you before moving forward to C & C.

Thank you,
Mark

Mark Abel, Ph.D., CSCS*D, TSAC-F
Associate Professor
Department of Kinesiology and Health Promotion
University of Kentucky
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Lexington, KY 40506-0219
Office: (859) 257-4091
Fax: (859) 323-1090
mark.abel@uky.edu

From: Bradley, Kelly D
Sent: Monday, February 15, 2016 11:42 AM
To: Toland, Michael D; Abel, Mark G; Reese, Robert J; Bieber, Jeffery P
Subject: RE: New Course

I'm coming into the conversation late, but it appears most of what is being taught, we already cover. So, the question becomes is if the two items not covered constitute an entire analysis course?

Kelly D. Bradley, Ph.D.
Professor; Quantitative Methods
Interim EPE Director of Graduate Studies
Vice-Chair COE Faculty Council
Educational Policy Studies & Evaluation

University of Kentucky; College of Education
131 Taylor Education Building
Lexington, KY 40506
kdbrad2@uky.edu
www.uky.edu/~kdbrad2

From: Toland, Michael D
Sent: Saturday, February 13, 2016 10:23 AM
To: Abel, Mark G; Reese, Robert J; Bradley, Kelly D; Bieber, Jeffery P
Subject: RE: New Course

Mark (cc Jeff Reese, Jeff Bieber, Kelly Bradley),

Thank you for your email. Before I chime in fully I think it is only fair to share my review and comparison with what we offer in EDP/EPE for statistics related courses with all parties that have a role in the joint department efforts to teach statistics related courses in the COE. Thus, EDP chair, Jeff Reese, EPE chair, Jeff Bieber, and fellow colleague in EDP who teaches other stats related courses, Kelly Bradley, are included.

Below I have highlighted in yellow the direct similarities in the proposed course student learning outcomes with what is learned in EDP/EPE 558. Note, when you write psychometric I interpret this as analysis of the properties of test score reliability and validity as covered in EDP/EPE 679. As a psychometrician this has a different meaning for me than maybe what you had intended. If this is the case, then learning outcome 1 overlaps with a basic learning outcome in EDP/EPE 679. If you remove the word psychometric it would just be similar to a learning outcome of EDP/EPE 558 which is what I believe you intended.

1. Describe and calculate basic psychometric properties of data sets/variables.
2. Calculate measures of central tendency and dispersion.
3. Describe, perform, and interpret parametric and nonparametric comparisons of mean differences/proportions.
4. Describe, perform, and interpret parametric and nonparametric analyses of regression.
5. Describe, perform, and interpret analyses utilizing standardized scores and modified z-scores.
6. Calculate effect sizes, absolute and relative difference scores, and smallest worthwhile change, and transferability.
7. Describe, perform, and interpret visual analyses of trends with scatterplots, bar graphs, radar graphs, pivot tables, and modified Bland-Altman plots.
8. Describe and interpret output from athlete monitoring systems, including heart rate variability, DC potential, GPS tracking systems, objective sleep monitoring, accelerometry, and wellness surveys.
9. Demonstrate proficiency in written and oral communication skills.

When I look at the new course schedule I see most overlap with EDP/EPE 558 occurring up to Exam 1 and a small amount after exam 2.

Michael

Michael Toland, PhD
Associate Professor

Educational Psychology Program - Quantitative & Psychometric Methods
Department of Educational, School, & Counseling Psychology
University of Kentucky
251C Dickey Hall
Lexington, KY 40506-0017
Office phone: 859.257.3395
Skype: toland.md
http://sites.education.uky.edu/apslab/

From: Abel, Mark G
Sent: Friday, February 12, 2016 4:03 PM
To: Stromberg, Arnold; Toland, Michael D
Subject: New Course

Dear Drs. Stromberg and Toland,

The Department of Kinesiology and Health Promotion is proposing a Graduate Certificate in High Performance Coaching. As part of the curriculum we are developing a course entitled "Analytics for High Performance" (KHP 691). Please find the syllabus and New Course Form attached. The course will be focused on the analysis, visualization, and interpretation of large data sets composed of training outcomes. Our goal is to prepare students for jobs involving Sport Science Analytics and High Performance Coaching. I kindly request that you review the syllabus and provide feedback with regard to any overlap of content with courses you may already offer. If you do not take issue with the proposed course objectives conflicting with an existing class, then please indicate that in your emailed response.
Thank you for your assistance.

With kind regards,
Mark Abel

Mark Abel, Ph.D., CSCS*D, TSAC-F*D, USAW-L1
Director, Exercise Physiology Laboratory
Associate Professor
Department of Kinesiology and Health Promotion
University of Kentucky
217 Seaton Building
Lexington, KY 40506-0219
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Fax: (859) 323-1090
mark.abel@uky.edu

Abel, Mark G

From: Bruckner, Geza
Sent: Tuesday, November 22, 2016 11:45 AM
To: Abel, Mark G
Cc: Thomas, D. Travis
Subject: RE: Elective Approval Request

Hi Mark,
After consulting with our faculty in the Division of Clinical Nutrition, we support having CNU 605, Wellness and Sports Nutrition, listed as a selective course for your proposed certificate in High Performance Coaching.

Be Aware of the Moment
Geza Bruckner, Professor Clinical Nutrition
Department of Clinical Sciences
Director of Clinical Nutrition
Director Health Sciences, Education and Research
Programs: Human Health Sciences and Clinical Leadership and Management
Graduate Center for Nutritional Sciences
http://www.mc.uky.edu/healthsciences/index.html
http://www.mc.uky.edu/nutrisci/
900 S. Limestone
209A CTW Building
Lexington, KY 40536-0200
859-323-1100 ext 80859
Fax 859-257-2454

From: Abel, Mark G
Sent: Tuesday, November 22, 2016 8:18 AM
To: Thomas, D. Travis; Bruckner, Geza
Subject: Elective Approval Request

Hello Geza and Travis,

I am contacting you to inform you that the Department of Kinesiology and Health Promotion is seeking approval for a Graduate Certificate in High Performance Coaching (Proposal Brief attached). **We would like to request permission from you (or your Dept. Chair, if different) and your respective faculty to offer CNU 605 as an elective for the Certificate.** We anticipate 5-15 graduate students enrolling in this Certificate per cohort, thus, you may experience a small increase in the enrollment in this course. Because students will have several options for completing the 3 credit hour elective requirement, not all students enrolled in this Certificate will take this course. **Please respond via email regarding your Department's approval to list this course as an elective. Be sure to include that 1) you approve of the inclusion, 2) you have consulted with your faculty about the matter, and 3) that the faculty approve of this inclusion as well.** Please contact me if you have any questions.

Thank you for your assistance.

Mark Abel

Abel, Mark G

From: Gribble, Phillip A
Sent: Tuesday, November 22, 2016 6:37 AM
To: Abel, Mark G
Subject: RE: Graduate Certificate: Approval Request

Hey Mark,
We discussed at our faculty meeting your request to include AT 700 in the proposal for the new Graduate Certificate and all were in favor. Let me know if you need any kind of letter of support from my end.

I do want to let you know that we are submitting some proposed changes in our Master of Science in AT degree, one of which is that AT 700 content will change to being delivered across two new proposed course. I can give you details and we can talk about how to use those for your Graduate Certificate. Or even potential for retaining AT 700 if there would be enough interest to keep enrollment up to offer for your certificate.

Proposed changes wouldn't go into place until at least 2020, but wanted to let you know so we can plan accordingly. Happy to discuss possibilities and see how best to help you out.

Thanks,
Phillip

Phillip A. Gribble, Ph.D., ATC, FNATA
Associate Professor; Director Division of Athletic Training
University of Kentucky College of Health Sciences
Department of Rehabilitation Sciences
206c Charles T. Wethington Building | Lexington, KY 40536-0200
859-218-0885 | phillip.gribble@uky.edu | www.uky.edu/chs/at

From: Abel, Mark G
Sent: Sunday, November 20, 2016 8:47 AM
To: Gribble, Phillip A
Subject: Re: Graduate Certificate: Approval Request

Thanks Phillip!
-Mark

Mark Abel, Ph.D., CSCS*D, TSAC-F*D, USAW
Director, Exercise Physiology Laboratory
Associate Professor
Department of Kinesiology and Health Promotion
University of Kentucky
217 Seaton Building
Lexington, KY 40506-0219
Office: (859) 257-4091
Fax: (859) 323-1090
mark.abel@uky.edu

From: Gribble, Phillip A
Sent: Friday, November 18, 2016 2:37:26 PM

Abel, Mark G

From: Stromberg, Arnold
Sent: Tuesday, November 29, 2016 10:55 AM
To: Abel, Mark G
Subject: RE: Graduate Certificate: Approval Request

Do you need official departmental approval before next Wednesday's (12/7/16) faculty meeting? Our executive committee has approved.

Arnold J. Stromberg
Professor and Chair
Department of Statistics
University of Kentucky
313 Multidisciplinary Science Building
725 Rose Street
Lexington, KY 40536-0082
Phone: 859-257-6115
Fax: 859-323-1973

From: Abel, Mark G
Sent: Tuesday, November 29, 2016 9:57 AM
To: Stromberg, Arnold <stromberg@uky.edu>
Subject: RE: Graduate Certificate: Approval Request

Hi Arny,
Any word on approving STA 671/672 as an elective for the High Performance Coaching Certificate?
Thanks,
Mark

From: Stromberg, Arnold
Sent: Thursday, November 17, 2016 11:31 AM
To: Abel, Mark G <mgabel2@uky.edu>
Subject: RE: Graduate Certificate: Approval Request

Sounds good. I'll ask the faculty to approve. I don't foresee any problems.

Arnold J. Stromberg
Professor and Chair
Department of Statistics
University of Kentucky
313 Multidisciplinary Science Building
725 Rose Street
Lexington, KY 40536-0082
Phone: 859-257-6115
Fax: 859-323-1973

From: Abel, Mark G
Sent: Thursday, November 17, 2016 9:54 AM
To: Stromberg, Arnold <stromberg@uky.edu>
Subject: RE: Graduate Certificate: Approval Request

Arny,
Great point. Most of the students taking this certificate will be from KHP, where they are required to take a stats course for that graduate program (eg, STA 570 or 580). So STA 671/672 would be additional stats that we feel is important for their professional development. Non-KHP students would have to take this prerequisite, if you are OK with that.
Thanks,
Mark

From: Stromberg, Arnold
Sent: Thursday, November 17, 2016 12:27 AM
To: Abel, Mark G <mgabel2@uky.edu>
Subject: Re: Graduate Certificate: Approval Request

Mark,

How are you dealing with the fact that STA 570 or STA 580 are prerecs for STA 671/72? I suppose 0students could take STA 570 or STA 580 outside of the certificate.

arny

Arnold J. Stromberg
Professor and Chair
Department of Statistics
University of Kentucky
313 Multidisciplinary Science Building
725 Rose Street
Lexington, KY 40536-0082
Phone: 859-257-6115
Fax: 859-323-1973

From: Abel, Mark G
Sent: Wednesday, November 16, 2016 5:16 PM
To: Stromberg, Arnold; Webb, Nancy R; Gribble, Phillip A
Subject: Graduate Certificate: Approval Request

Dear Drs. Stromberg, Webb, and Gribble,

I am contacting you to inform you that the Department of Kinesiology and Health Promotion is seeking approval for a Graduate Certificate in High Performance Coaching (Proposal Brief attached). **We would like to request permission from you (or your Dept. Chair, if different) and your respective faculty to offer the following courses as electives for the Certificate.** We anticipate 5-15 graduate students enrolling in this Certificate per cohort, thus, you may experience a small increase in the enrollment in these courses. Because students will have several options for completing the 3 credit hour elective requirement, not all students enrolled in this Certificate will take the your particular course. **Please respond via email regarding approval of including your Department's course(s) as an elective (listed below). Be sure to include that 1) you approve of the inclusion, 2) you have consulted with your faculty about the matter, and 3) that the faculty approve of this inclusion as well.** Please contact me if you have any questions.

Certificate Electives:

-STA 671/672
-AT 700
-CNU 605

Thank you for your assistance.

Mark Abel

Mark Abel, Ph.D., CSCS*D, TSAC-F*D, USAW
Director, Exercise Physiology Laboratory
Associate Professor
Department of Kinesiology and Health Promotion
University of Kentucky
217 Seaton Building
Lexington, KY 40506-0219
Office: (859) 257-4091
Fax: (859) 323-1090
mark.abel@uky.edu

PROPOSAL

(Remove the ~~red wording~~.)

SR 1.4.2.13 Senate Committee on Distance Learning and eLearning (SCDLeL**)** [US: 12/9/2013]

A. *The SCDLeL shall identify, assess and address issues related to distance learning and eLearning and make recommendations to the University Senate for policies. Specifically, activities of the SCDLeL shall include the following areas:*

1. *Identify issues related to distance learning and eLearning and recommend policies.*
2. *Monitor and respond to the University Senate concerning SACS, state and federal regulations related to distance learning and eLearning.*
3. *Recommend strategies for dissemination of distance learning and eLearning issues and policies.*
4. *Recommend strategies for effective implementation of distance learning and eLearning.*
5. *Collaborate with other UK groups/committees on issues related to distance learning and eLearning as appropriate.*

B. *The committee shall make recommendations to the Senate Council for committee membership from the following categories:*

1. *At least one member from Colleges with active distance learning or eLearning programs.*
2. *At least one member from each academic support unit involved in distance learning including but not limited to CELT, Distance Learning Programs, Information Technology and a representative for accessibility issues.*
3. *One Undergraduate Student appointed by SGA (1 year term).*
4. *One Graduate Student (1 year term – selected from list of students nominated by Colleges with active distance learning/e-learning programs).*

The Senate Council may appoint ~~additional~~ voting or nonvoting members to the committee at its discretion.

The Committee also proposes to move the SCDLeL committee description from SR 1.4.2 to SR 1.4.3 (i.e., to eliminate the requirement that the committee must be chaired by a member of the Senate and composed of a majority of members who are elected Faculty Senators).

Honors Transition Committee

Chair: Phil Harling, Interim Dean harling@uky.edu

Current Honors Faculty of Record
1. Becky Dutch (Medicine) rdutc2@uky.edu
2. John Balk (Engineering) john.balk@uky.edu
3. Kristin Ashford (Nursing) Kristin.ashford1@uky.edu
4. Vanessa Jackson (CAFÉ) vpjackson@uky.edu
5. Jon Glixon (FA) jonathan.glixon@uky.edu
6. Jim Hertog (C&I) jim.hertog@uky.edu
7. Lisa Blue (A&S) lisa.blue@uky.edu

University Senate
1. Leon Sachs (A&S) lsach2@uky.edu
2. Bruce Webb (CAFÉ) bawebb@pop.uky.edu

Department Chairs
1. Claire Renzetti (A&S) Claire.renzetti@uky.edu
2. Margaret Bausch (Education) meb@email.uky.edu
3. Nancy Jones (FA) nancy.jones@uky.edu
4. Jeff Huber (C&I) Jeffrey.huber@uky.edu

Provost Appointments
1. Lisa Wilson (Provost Office) lisa.wilson@uky.edu
2. Scott Kelly (B&E) skelley@uky.edu

Honors Staff Representative
Meg Marquis memarq0@email.uky.edu

Student Member
Latta, Hannah L hannah.latta@uky.edu

Charge to the Lewis Honors College Transition Committee

1. Consider what an Honors College ought to *mean* – i.e. its proper ethos, essence, and culture – both in its own right and in the contexts particular to UK
2. Consider an appropriate curriculum for the Honors College, and how best to expand from a 21- to a 30-hour curriculum
3. Consider the appropriate staffing for the Honors College, and develop an appropriate staffing structure
4. Identify how the proposal will ensure success for other colleges as well as provide unique educational opportunities for students
5. Determine how to ensure diversity of both faculty and students in the Honors College as well as access for students of diverse economic and social backgrounds
6. Determine the overall composition of the faculty for the Honors College and a regulatory structure to govern faculty eligibility and involvement
7. Determine the criteria for participating in faculty governance in the Honors College
8. Recommend an Honors Faculty of Record for the Honors College and develop a governance structure for membership terms and renewals
9. Recommend how to ensure effective consultation of the Honors College dean and faculty with the deans of other colleges, faculty participating in the program (associate faculty), and the External Advisory Committee
10. Assess the plans for economic sustainability of the Honors College

Curricular Proposal for Enhancing UK Honors Requirements from 21 credits to 30 credits

Current: 21 credits

Plus 3 (to 24 credits): Make WRD 112/CIS 112 compulsory for all Honors students. WRD 112/CIS 112 (Accelerated Composition and Communication) are accelerated versions of the standard 2-semester composition and communication sequence. They focus on integrated oral, written, and visual communication skill development and emphasizes critical inquiry and research. (CIS 112 differs from WRS 112 in including a community-service obligation). Virtually all current Honors students already take one or the other of these accelerated courses. All current students can be accommodated at current instructional staffing levels.

Plus 3 (to 27 credits): Add a foundational seminar to be taken by all Honors students by the end of their 2nd year.

Transition Committee description:

The purpose of this course is to build a sense of intellectual community among students in the Lewis Honors College by engaging them in a shared academic experience. A three-credit, one-semester course taken in the freshman or sophomore year, it will emphasize the development of analytical reading and writing skills. The course will be writing intensive, requiring the students to produce a minimum of 20 pages over the course of the semester and to complete at least one assignment that includes a formal revision process. The overarching theme of the course addresses the relationship of the individual and the world, and students will explore how the three main branches of academic inquiry—humanities, natural sciences, social sciences—address this topic. The course theme is intentionally broad, inviting periodic revision by the course instructors. It is nevertheless desirable that there be a substantial (approximately 75%) degree of standardization in texts and assignments each semester and through successive iterations of the course for the sake of establishing an honors college tradition and building community across grade levels. Course instructors will participate in an annual, late spring retreat during which they will collectively decide on the course's anchor texts and assignments. The course will be composed of seminars capped at 20 students. Each of the three major units will be introduced by an evening lecture by a prominent UK faculty member who will be asked to present a broad historical context and/or epistemological framework for subsequent student discussion within the relevant unit. These lectures will have either the natural sciences, social sciences, or humanities as their broad focus, and speakers will be encouraged to incorporate the broad course theme into their talks. Such events afford students a more robust understanding of the specific texts associated with the subsequent course unit. Class meetings will integrate the lecture material, key texts, and other primary source materials to promote discussion within small groups, the larger class cohort, and among students across the various course sections.

Plus 3 (to 30 Credits): Require 3 credits of directed elective (to count only as Honors credit – i.e. cannot count toward UK Core credit)

Transition Committee description:

A University of Kentucky Lewis Honors College student should not be developing only depth in her or his field of study but also breadth of Honors-level course experience.

Honors students must choose at least three credit hours in HON 301 or departmental Honors sections outside their general discipline* of study, including declared majors or minors, at the time of course

enrollment. Students must consult with their Honors advisor to secure permission for their intended directed elective prior to enrollment; advisors will guide students to consider courses significantly outside their field of study or in truly elective potential areas of academic growth. Course conversions may not be used for this requirement, and departments may provide guidelines for advisors to help identify strong candidates for especially specialized courses.

Colleges and departments should see this as an opportunity to develop Honors sections, especially for blended enrollments of high-performing non-Honors majors and Honors students pursuing this directed elective. Additionally, departments should consider developing new HON 301 courses to innovate new courses that may eventually be brought back to the home department of the offering faculty member.

*Broadly classified as life sciences, physical sciences and engineering, fine arts, humanities, and social science and business.

Additional Requirement (not credit-bearing): Presentation of independent work

Transition Committee description:

The purpose of this proposed curricular element is to define and formalize the already established Honors requirement to promote and ensure high-quality honors independent work and/or capstone experiences, and to consciously assimilate the role and importance of curricular and extra-curricular experiential education as a core element of the Lewis Honors College. To meet this requirement, Lewis Honors College students will be expected to develop a formal proposal and presentation and disseminate their independent work at an interdisciplinary venue. First and second year students will be meaningfully exposed to, and involved in the Honors independent and/or capstone projects as part of a required Honors course. The intent of this recommendation is to recognize the importance of the experiential and capstone elements of the Honors program and to broadly highlight these activities among the Honors student body. Exposing first- and second-year Honors students early to the best independent work of their more experienced peers will raise the expectations bar for students in the early stages of the program while giving exemplary student research the audience it deserves.

To ensure high quality independent work and capstone experiential education within the framework of existing Honors classes and to provide opportunities for dissemination of scholarly work, we propose:

1. A requirement for Honors students to attend and participate in development and presentation of independent work and/or capstone proposals and seminars. This requirement can be embedded within the proposed foundational seminar.
2. Add some structure and requirements to the required honors independent and/or capstone courses (currently 6 credits) that would: a) have students develop and present a proposal for their independent and/or capstone honors course(s); and b) have students formally present their honors experiential work and/or capstone in an interdisciplinary venue, either one that is existing or one developed for this purpose (e.g. Showcase of Undergraduate Research, Global Health Conference, Center for Clinical and Translational Science Conference).
3. The Honors experiential courses would have a course coordinator responsible for approval, viewing and critiquing Honors independent and/or capstone proposals in a group setting with other students (upper class and freshman) and evaluating presentations of the work when it is complete.
4. A select cohort of presentations would be selected by Honors College Faculty for highlighting in an Honors Showcase and representative of projects that embody the ideals and aspiration of the Honors program. These select few projects may be presented as part of a year-end celebration of the Lewis Honors College.

Current Curriculum

Requirement	When Completed	Credit Hrs
WRD/CIS 112 (Suggested Only)	1st Year	O (not part of Honors curriculum right now)
Lower-Level Honors Courses (HON 151, 152, 251, 252, or Dept. Honors Section)	1st Year	6
		0
Upper-Level Honors Courses (HON 301, dept. Honors sections, Course Conversions, G-level courses)	2nd-4th Year	6
Honors Experiences (Edu Abroad, UG Research, Experiential Edu)	2nd-4th Year	6
		0
Honors Capstone (typically in major)	4th Year	3
		0
	TOTAL CREDIT HOURS	21

Proposed Curriculum

Requirement	When Completed	Credit Hrs
WRD/CIS 112 (Required)	**First Year**	**3**
Lower-Level Honors Courses (HON 151, 152, 251, 252, or Dept Hon Section)	First Year	6
Foundational Honors Seminar TBD	**within first 2 yrs**	**3**
Upper-Level Honors Courses (HON 301, dept Hon sections, Course Conversions, G-level courses)	2nd-4th Year	6
Honors Experiences (Edu Abroad, UG Research, Experiential Edu)	2nd-4th Year	6
Directive Elective (Dept Honors Course Outside Students' major	**2nd-4th year**	**3**
Honors Capstone (typically in major)	4th Year	3
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