

Current Course Report

3/23/2016 12:34:02 PM

RECEIVED

Course Information

MAR 222016

Date Submitted: 2/25/2016

OFFICE OF THE

Current Prefix and Number: BMI - Biomedical Informatics, BMI 734 INTRO TO BIOMEDICAL IMAGE ANALYSIS CUNCIL

Other Course:

Proposed Prefix and Number: BMI 734

What type of change is being proposed?

Major Change

Should this course be a UK Core Course? No

1. General Information

a. Submitted by the College of: PUBLIC HEALTH

b. Department/Division: Dept Of Biostatistics

c. Is there a change in 'ownership' of the course? Yes

If YES, what college/department will offer the course instead: College of Medicine

e. Contact Person

Name: Andrea Perkins

Email: andrea.perkins@uky.edu

Phone: 218-2021

Responsible Faculty ID (if different from Contact)

Name: Kathryn Cardarelli

Email: kathryn.cardarelli@uky.edu

Phone: 218-0241

f. Requested Effective Date

Semester Following Approval: Yes OR Effective Semester:

2. Designation and Description of Proposed Course

a. Current Distance Learning (DL) Status: Already approved for DL*

b. Full Title: INTRODUCTION TO BIOMEDICAL IMAGE ANALYSIS

Proposed Title: Same

c. Current Transcript Title: INTRO TO BIOMEDICAL IMAGE ANALYSIS

Proposed Transcript Title: Same

KENTUCKY'

Current Course Report

d. Current Cross-listing: none

Proposed - ADD Cross-listing:

Proposed - REMOVE Cross-listing:

e. Current Meeting Patterns

LECTURE: 3

Proposed Meeting Patterns

LECTURE: 3

f. Current Grading System: Graduate School Grade Scale

Proposed Grading System: Graduate School Grade Scale

g. Current number of credit hours: 3

Proposed number of credit hours: 3

h. Currently, is this course repeatable for additional credit? No

Proposed to be repeatable for additional credit? No

If Yes: Maximum number of credit hours:

If Yes: Will this course allow multiple registrations during the same semester? No

2i. Current Course Description for Bulletin: This class aims to give students a broad overview of biomedical image analysis and imaging informatics. We will introduce the state-of-the-art knowledge to understand, develop, and apply existing methods and software to handle biomedical image data to extract quantitative matrices.

Proposed Course Description for Bulletin: Same

2j. Current Prerequisites, if any:

Proposed Prerequisites, if any:

2k. Current Supplementary Teaching Component:

Proposed Supplementary Teaching Component:

3. Currently, is this course taught off campus? No

Proposed to be taught off campus? No

If YES, enter the off campus address:

4. Are significant changes in content/student learning outcomes of the course being proposed? No

If YES, explain and offer brief rational:

5a. Are there other depts. and/or pgms that could be affected by the proposed change? Yes
If YES, identify the depts. and/or pgms: College of Medicine, Department of Internal Medicine

5b. Will modifying this course result in a new requirement of ANY program? No



Current Course Report

If YES, list the program(s) here:

6. Check box if changed to 400G or 500: No

Distance Learning Form

Instructor Name:

Instructor Email:

Internet/Web-based: No

Interactive Video: No

Hybrid: No

1. How does this course provide for timely and appropriate interaction between students and faculty and among students? Does the course syllabus conform to University Senate Syllabus Guidelines, specifically the Distance Learning Considerations?

- 2.How do you ensure that the experience for a DL student is comparable to that of a classroom-based student's experience? Aspects to explore: textbooks, course goals, assessment of student learning outcomes, etc.
- 3. How is the integrity of student work ensured? Please speak to aspects such as password-protected course portals, proctors for exams at interactive video sites; academic offense policy; etc.
- 4. Will offering this course via DL result in at least 25% or at least 50% (based on total credit hours required for completion) of a degrée program being offered via any form of DL, as defined above?

If yes, which percentage, and which program(s)?

- 5. How are students taking the course via DL assured of equivalent access to student services, similar to that of a student taking the class in a traditional classroom setting?
- 6.How do course requirements ensure that students make appropriate use of learning resources?
- 7.Please explain specifically how access is provided to laboratories, facilities, and equipment appropriate to the course or program.
- 8.How are students informed of procedures for resolving technical complaints? Does the syllabus list the entities available to offer technical help with the delivery and/or receipt of the course, such as the Information Technology Customer Service Center (http://www.uky.edu/UKIT/)?
- 9.Will the course be delivered via services available through the Distance Learning Program (DLP) and the Academic Technology Group (ATL)? NO

If no, explain how student enrolled in DL courses are able to use the technology employed, as well as how students will be provided with assistance in using said technology.

- 10. Does the syllabus contain all the required components? NO
- 11.1, the instructor of record, have read and understood all of the university-level statements regarding DL.

Instructor Name:



Current Course Report

SIGNATURE|ALHAYS0|Andrea L Perkins|BMI 734 CHANGE College Review|20160225 SIGNATURE|ZNNIKO0|Roshan N Nikou|BMI 734 CHANGE Graduate Council Review|20160322



May 4th, 2016

Andrew Hippisley
Chair, University of Kentucky Senate Council

Dear Dr. Hippisley,

We, the undersigned tenure and tenure-track faculty members of the Division of Biomedical Informatics (BMI), Department of Internal Medicine in the College of Medicine, support the proposed move of the following BMI courses from the Department of Biostatistics in the College of Public Health to the Division of Biomedical Informatics in the Department of Internal Medicine:

- BMI 633: Introduction to Bioinformatics
- BMI 730: Principles of Clinical Informatics
- BMI 731: Biomedical Information Retrieval
- BMI 732: Biomedical Ontologies and Semantic Web Techniques
- BMI 733: Biomedical Natural Language Processing
- BMI 734: Introduction to Biomedical Image Analysis
- BMI 735: Introduction to Biolmage Informatics

Sincerely,

Guznang, Professor

Wi Kcichat us hay n Radha Nagarajan, Associate Professor Sujin Kim, Associate Professor

Ramakanth Kavuluru, Assistant Professor

Division of Biomedical Informatics College of Medicine

Course Change Form

<u>Or</u>	en in full window to print	or save						Generate R		
ach	ments:									
acı	Brows	se	Upload File							
	Ten									
let	ID Attach e 6334 Letter to COM.c	·								
let	e 6335 LOS BMI Course	e Transfer.pdf								
	First 1 Last									
			•	·						
		NOTE: S	Start form entry by che	oosing the C s required fi			mber			
	<u> </u>	y (cquired)	1 E	Proposed Prefix & N	umber.					
	Current Prefix and Number:	BMI 734 INTRO TO B	IOMEDICAL IMAGE ANAI	YSIS		(example: PHY 4010		BMI 734		
		<u> </u>				Check if same as	current			
						· Change · Add Distance Lea	raina			
							=	nundred series, except		
				799	799 is the same "hundred series"					
	What type of change is being proposed?					☐ Minor - editorial change in course title or description which does n change in content or emphasis				
						☐Minor - a change in prerequisite(s) which does not imply a change				
						course content or emphasis, or which is made necessary by the elim or significant alteration of the prerequisite(s)				
				۸۱	Minor	- a cross listing of a	course as descri	bed above		
	Should this course be a	UK Core Course? ලා	Yes [⊚] No							
	If YES, check the areas	that apply:								
	🖺 Inquiry - Arts & Crea	tivity 🗆 Co	mposition & Communicat	ions - II						
	☐ Inquiry - Humanities	□Qu	antitative Foundations							
	☐ Inquiry - Nat/Math/PI	hys Sci 🗆 Sta	ntistical Inferential Reasor	ning						
	Inquiry - Social Scien	nces 🗆 U:	S. Citizenship, Community	y, Diversity						
	Composition & Com	munications - I 🖾 Glo	obal Dynamics							
	General Information							10:00 11:01:01:01:01:01		
•	Submitted by the College	e of: PUBLIC HEALTH	1			Submission	Date: 2/25/2016			
).	Department/Division:		Dept Of Biostatistics							
*	Is there a change in "ow	nership" of the course?)							
			ent will offer the course in	stead? Colli	ege o	of Medicine		T		
	* Contact Person Name:		Andrea Perkins			perkins@uky.edu Pho	ne: 218-2021			
.*	* Responsible Faculty ID					cardarelli@uky.e-Pho		:		
k	Requested Effective Dat	e:	☑ Semester Following	ig Approval	- 1	or s	pecific Term: 2			
	Designation and Descr	iption of Proposed C	ourse.							
				⊙ N/A						
ι.	Current Distance Learning(DL) Status:					ed for DL*				
						se Add se Drop				
	*If already approved for D affect DL delivery.	L, the Distance Learnin	g Form must also be subm		•	partment affirms (by c	necking this box)	that the proposed chang		
		THERONICETON CO	DIOMPHICAL THROP 227	TVCTC	-		Same			
٥.	Full Title:	INTRODUCTION TO	BIOMEDICAL IMAGE ANA		1	Proposed Title: *	ľ			
				•	r					
	Current Transcript Title	e (if full title is more tha	n 40 characters):	INTI	RO T	O BIOMEDICAL IMA	GE ANALYSIS			
	<u> </u>			12						
	Proposed Transcript Title	e (if full title is more tha	in 40 characters):	San	ne					

			Ø N/	Α				Currently ³ Cross-li Number):	sted with (Prefix &	none		
F	Proposed – A	DD ³ Cross-listing (Pre			!	<u> </u>						
	Proposed – REMOVE ^{3,4} Cross-listing (Prefix & Number):											
e.	Courses mus	st be described by <u>at</u>	least one	of the	meeting patterns	below. I	nclude n	umber of actual c	ontact hours ⁵ for eacl	meeting patterr		
Curr	Lecture Labora		boratory ⁵			on :	Discussion	Indep, Study				
		Clinical		Colloqu	ium		Practicu	m	Research	Residency		
		Seminar		Studio			Other		Please explain:			
Prop	osed: *	Lecture 3	Labora		oratory ⁵		Recitation		Discussion	Indep. Study		
		Clinical	!	Colloqu	ilum:		Practicum		Research	Residency		
		Seminar		Studio	:		Other		Please explain:			
f.	Current Grad	Current Grading System:			Graduate School	Grade Sc	ale					
	Proposed Grading System:*				○ Letter (A, B, C, etc.) ○ Pass/Fall ○ Medicine Numeric Grade (Non-medical students will receive a letter grade) ⑤ Graduate School Grade Scale							
g.	Current num	Current number of credit hours:				3		:	Proposed number of credit hours:*	3		
h <i>.</i> *	Currently, is this course repeatable for additional				credit?					⊖Yes ® No		
*	Proposed to t	e repeatable for additi	onal cred	it?						⊖Yes ® No		
	If YES: Maximum number of credit hours:				:							
	If YES: Will this course allow multiple registrations during the same semester?							ିYes ିNo				
i.	Current Course Description for Bulletin:											
	introduce the state-of-the-art knowledge to understand, develop, and apply existing methods and software to handle blomedical image data to extract quantitative matrices.								and the second s			
<u> </u>	Proposed Course Description for Bulletin:											
	Same											
J.	Current Prerequisites, if any:											
*	Proposed Pre	requisites, if any:										
*				÷								
k.	Current Supr	olementary Teaching	Compon	ent, if a	ny:				O Community-Based I	Experience		

		ି Service Learning ି Both	<u> </u>	
	Proposed Supplementary Teaching Component:	© Community-Based Experience © Service Learning © Both © No Change		
3.	Currently, is this course taught off campus?		○Yes ® No	
*	Proposed to be taught off campus?		ົYes ® No	
	If YES, enter the off campus address:			
4.*	Are significant changes in content/student learning outcomes of the course being proposed?		○ Yes ⑨ No	
	If YES, explain and offer brief rationale:	· · · · · · · · · · · · · · · · · · ·	<u>:</u>	
5.	Course Relationship to Program(s).			
a.*	Are there other depts and/or pgms that could be affected by the proposed change?		⑨ Yes ◯ No	
	If YES, identify the depts. and/or pgms:			
	College of Medicine, Department of Internal Medicine			
ь.*	Will modifying this course result in a new requirement ² for ANY program?		○Yes ® No	
	If YES ² , list the program(s) here:			
6.	Information to be Placed on Syllabus. Check how if shaped to lif changed to 400G- or 500-level course you must send in a syllabus and you must	et include the differentialia	n hetween under	
а.	Check box if changed to 400G or 500. (i) requiring additional assignments by the graduate students by: (i) requiring additional assignments by the graduate students to the criteria in the course for graduate students. (See SR 3.1.4.)	udents; and/or (ii) establish	ning different grad	

Ese comment description regarding minor course change. Minor changes are sent directly from dean's office to Senate Council Chair. If Chair deems the change as "not minor," the form will 1 appropriate academic Council for normal processing and contact person is informed.

Ecourses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

Esignature of the chair of the cross-listing department is required on the Signature Routing Log.

Removing a cross-listing does not drop the other course – it merely unlinks the two courses.

Generally, undergrad courses are developed such that one semester hr of credit represents 1 hr of classroom meeting per wk for a semester, exclusive of any lab meeting. Lab meeting gene least two hrs per wk for a semester for 1 credit hour. (Seo SR 5.2.1.)

You must also submit the Distance Learning Form in order for the course to be considered for DL delivery.

In order to change a program, a program change form must also be submitted.

Charles "Chipper" Henry Griffith, III, MD, MSPH Senior Associate Dean for Medical Education Professor of Internal Medicine and Pediatrics University of Kentucky College of Medicine Office of the Dean 800 Rose Street, MN 143 Lexington, KY 40536-9983

Dear Dr. Griffith:

The Division of Biomedical Informatics in the College of Public Health was dissolved in fall 2015, and the faculty that were formerly affiliated with that division have now transferred to the College of Medicine. The College of Public Health now proposes to transfer the following courses to the College of Medicine:

- BMI 633 Introduction to Bioinformatics
- BMI 730 Principles of Clinical Informatics
- BMI 731 Biomedical Information Retrieval
- BMI 732 Biomedical Ontologies and Semantic Web Techniques
- BMI 733 Biomedical Natural Language Processing
- BMI 734 Introduction to Biomedical Image Analysis
- BMI 735 Introduction to Bioimage Informatics

These courses are not required for any of our college's degree programs but will likely be of interest to your college as its new Division of Biomedical Informatics, under the leadership of Dr. Zhang, continues to develop. Thank you for considering our proposal.

Sincerely,

Kathryn M. Cardarelli, Ph.D.
Associate Dean for Academic and Student Affairs
College of Public Health
University of Kentucky



February 22, 2016

Kathryn M. Cardarelli, Ph.D. Associate Dean for Academic and Student Affairs University of Kentucky College of Public Health 111 Washington Ave., Suite 120 Lexington, KY 40536 Office of Medical Education
Vice Dean for Education
800 Rose Street, MN 104 UKMC
Lexington, KY 40536-0298
(859) 257-5286
www.mc.uky.edu

Dear Dr. Cardarelli:

Given the transfer of the Division of Biomedical Informatics faculty from the College of Public Health to the College of Medicine in fall 2015, the College of Medicine is supportive of your proposal to transfer the following courses to the College of Medicine:

- BMI 633 Introduction to Bioinformatics
- BMI 730 Principles of Clinical Informatics
- BMI 731- Biomedical Information Retrieval
- BMI 732 Biomedical Ontologies and Semantic Web Techniques
- BMI 733 Biomedical Natural Language Processing
- BMI 734 Introduction to Biomedical Image Analysis
- BMI 735 Introduction to Bioimage Informatics

Thank you for your efforts in the transfer of these courses.

Sincerely,

Charles H. Griffith, III, MD, MSPH Professor of Internal Medicine and Pediatrics Vice Dean for Education University of Kentucky College of Medicine