Course Information

Date Submitted: 2/25/2016

Current Prefix and Number: BMI - Biomedical Informatics, BMI 735 INTRODUCTION TO BIOIMAGE INFORMATICS

Other Course:

Proposed Prefix and Number: BMI 735

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 BIOIMAGE INFORMATICS

   Proposed Title: Same

c. Current Transcript Title: INTRODUCTION TO BIOIMAGE INFORMATICS

   Proposed Transcript Title: Same

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: ABC Letter 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 provides an introduction to searching and retrieval in biomedical image analysis and imaging informatics. We will introduce some advanced biomedical image analysis, searching, and retrieval algorithm for fast and efficient image searching and retrieval.

   Proposed Course Description for Bulletin: Same

2j. Current Prerequisites, if any: Prereq: BMI-734: Introduction to Biomedical Image Analysis.

   Proposed Prerequisites, if any: Same

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

2

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 degree 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.I, the instructor of record, have read and understood all of the university-level statements regarding DL.

Instructor Name:

SIGNATURE|ALHAYS0|Andrea L Perkins|BMI 735 CHANGE College Review|20160225

SIGNATURE|ZNNIKO0|Roshan N Nikou|BMI 735 CHANGE Graduate Council Review|20160322

U°K
UNIVERSITY OF KENTUCKY

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 BioImage Informatics
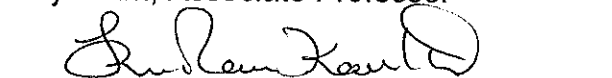
Sincerely,

GQ Zhang, Professor

Radha Nagarajan, Associate Professor

Sujin Kim, Associate Professor

Ramakanth Kavuluru, Assistant Professor

Division of Biomedical Informatics
College of Medicine

Course Change Form

https://myuk.uky.edu/sap/bc/soap/rfc?services=

Open in full window to print or save

Generate R

Attachments:

[Browse...]   Upload File

	ID	Attachment
Delete	6336	Letter to COM.docx
Delete	6337	LOS BMI Course Transfer.pdf

[First] 1 [Last]

NOTE: Start form entry by choosing the Current Prefix and Number
(*denotes required fields)

Current Prefix and Number:	BMI - Biomedical Informatics ▼ BMI 735 INTRODUCTION TO BIOIMAGE INFORMATICS ▼	*Proposed Prefix & Number.* (example: PHY 401G) ☑ Check if same as current	BMI 735
*	What type of change is being proposed?	☑ Major Change ☐ Major – Add Distance Learning ☐ Minor - change in number within the same hundred series, except 799 is the same "hundred series" ☐ 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) ☐ Minor - a cross listing of a course as described above	

Should this course be a UK Core Course? ○ Yes ◉ No
If YES, check the areas that apply:

☐ Inquiry - Arts & Creativity	☐ Composition & Communications - II
☐ Inquiry - Humanities	☐ Quantitative Foundations
☐ Inquiry - Nat/Math/Phys Sci	☐ Statistical Inferential Reasoning
☐ Inquiry - Social Sciences	☐ U.S. Citizenship, Community, Diversity
☐ Composition & Communications - I	☐ Global Dynamics

1.	**General Information**	
a.	Submitted by the College of: PUBLIC HEALTH	Submission Date: 2/25/2016
b.	Department/Division:	Dept Of Biostatistics
c.*	Is there a change in "ownership" of the course?	
	◉ Yes ○ No 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) Kathryn Cardarelli Email: kathryn.cardarelli@uky.e Phone: 218-0241	
f.*	Requested Effective Date:	☑ Semester Following Approval OR Specific Term: ²
2.	**Designation and Description of Proposed Course.**	
a.	Current Distance Learning(DL) Status:	○ N/A ◉ Already approved for DL* ○ Please Add ○ Please Drop
	*If already approved for DL, the Distance Learning Form must also be submitted unless the department affirms (by checking this box) that the proposed chan affect DL delivery.	
b.	Full Title:	INTRODUCTION TO BIOIMAGE INFORMATICS	*Proposed Title: * Same
c.	Current Transcript Title (if full title is more than 40 characters):	INTRODUCTION TO BIOIMAGE INFORMATICS
c.	*Proposed Transcript Title (if full title is more than 40 characters):*	Same
d.	Current Cross-listing:	OR

| | | ☑ N/A | | Currently[3] Cross-listed with (Prefix & Number): | none |

| Proposed – ADD[3] Cross-listing (Prefix & Number): | |

| Proposed – REMOVE [3,4] Cross-listing (Prefix & Number): | |

e. Courses must be described by <u>at least one</u> of the meeting patterns below. Include number of actual contact hours [5] for each meeting pattern

Current:	Lecture 3	Laboratory[5]	Recitation	Discussion	Indep. Study
	Clinical	Colloquium	Practicum	Research	Residency
	Seminar	Studio	Other	Please explain:	

Proposed: *	Lecture 3	Laboratory[5]	Recitation	Discussion	Indep. Study
	Clinical	Colloquium	Practicum	Research	Residency
	Seminar	Studio	Other	Please explain:	

f.	Current Grading System:		ABC Letter Grade Scale	
	Proposed Grading System:*		○ Letter (A, B, C, etc.) ○ Pass/Fail ○ Medicine Numeric Grade (Non-medical students will receive a letter grade) ◉ 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?	○ Yes ◉ No
*	Proposed to be repeatable for additional credit?	○ 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:

This class provides an introduction to searching and retrieval in biomedical image analysis and imaging informatics. We will introduce some advanced biomedical image analysis, searching, and retrieval algorithm for fast and efficient image searching and retrieval.

* Proposed Course Description for Bulletin:

Same

j. Current Prerequisites, if any:

Prereq: BMI-734: Introduction to Biomedical Image Analysis.

* Proposed Prerequisites, if any:

Same

k.	Current Supplementary Teaching Component, if any:		○ Community-Based Experience

			○ Service Learning ○ Both
		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 ◉ No
	If YES, explain and offer brief rationale:		
5.	Course Relationship to Program(s).		
a.*	Are there other depts and/or pgms that could be affected by the proposed change?		◉ Yes ○ No
	If YES, identify the depts. and/or pgms:		
	College of Medicine, Department of Internal Medicine		
b.*	Will modifying this course result in a new requirement[7] for ANY program?		○ Yes ◉ No
	If YES[7], list the program(s) here:		
6.	Information to be Placed on Syllabus.		
a.	☐ Check box if changed to 400G or 500.	If changed to 400G- or 500-level course you must send in a syllabus and you must include the differentiation between under and graduate students by: (i) requiring additional assignments by the graduate students; and/or (ii) establishing different gra criteria in the course for graduate students. (See SR 3.1.4.)	

[1] See 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 l appropriate academic Council for normal processing and contact person is informed.
[2] Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.
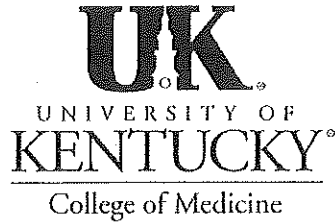[3] Signature of the chair of the cross-listing department is required on the Signature Routing Log.
[4] Removing a cross-listing does not drop the other course – it merely unlinks the two courses.
[5] Generally, undergrad courses are developed such that one semester hr of credit represents 1 hr of classroom 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. (See SR 5.2.1.)
[6] You must also submit the Distance Learning Form in order for the course to be considered for DL delivery.
[7] In order to change a program, a program change form must also be submitted.

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

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

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