

AECEWED

#### **Course Information**

Date Submitted: 2/25/2016

MAR 222016

OFFICE OF THE Current Prefix and Number: BMI - Biomedical Informatics, BMI 733 BIOMEDICAL NATURAL LANGUAGETE COUNCIL

**PROCESSING** 

Other Course:

Proposed Prefix and Number: BMI 733

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: BIOMEDICAL NATURAL LANGUAGE PROCESSING

Proposed Title: Same

c. Current Transcript Title: BIOMEDICAL NATURAL LANGUAGE PROCESSING

Proposed Transcript Title: Same



# **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 course is a technical introduction to the area of biomedical natural language processing (NLP). In the field of biomedical informatics, this focuses on the common steps in extracting information from textual data that arises from biomedical literature and clinical documents. Topics involve n-gram models, tokenization, POS tagging, and parsing.

Proposed Course Description for Bulletin: Same

2j. Current Prerequisites, if any: Prereq: MA 123 (or equivalent) or consent of instructor.

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 Medicince, 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 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:



# **Current Course Report**

SIGNATURE|ALHAYSO|Andrea L Perkins|BMI 733 CHANGE College Review|20160225 SIGNATURE|ZNNIKO0|Roshan N Nikou|BMI 733 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**

|  | en in full window to print   | or save  |  |  |   |   | Generate R              |  |  |  |
|--|--|--|--|--|---|---|-------------------------|--|--|--|
| tach   | nments:  |  |  |  |   |   |                         |  |  |  |
|  | Brows  | ie   | Upload File  |  |   |   |                         |  |  |  |
|  | ID Attach  | ment   |  |  |   |   |                         |  |  |  |
|  | e 6332 Letter to COM.c   | locx   |  |  |   |   |                         |  |  |  |
| elet   | e 6333 LOS BMI Course  | 21   |  |  |   |   |                         |  |  |  |
|  | First 1 Last   |  |  |  |   |   |                         |  |  |  |
|  |  |  |  |  |   |   |                         |  |  |  |
|  |  | NOTE: S  | art form entry by ch   |  |   | mber  |                         |  |  |  |
| (*denotes required fields)    BMI - Biomedical Informatics   Proposed Prefix & Number  |  |  |  |  |   |   |                         |  |  |  |
|  | Current Prefix and Number:   | BMI 733 BIOMEDICAL NATURAL LANGUAGE PROCES   |  |  | Proposed Prefix & Number.<br>(example: PHY 401G)  |   | BMI 733                 |  |  |  |
|  | Numbel.  |  |  |  | ☑ Check if same as  | current   |                         |  |  |  |
|  |  |  |  | 1  | r Change  |   |                         |  |  |  |
|  |  | •  |  | 3  | r – Add Distance Lear   | _   | undred series, evcent   |  |  |  |
|  |  |  |  | 799 is li  | [] Minor - change in number within the same hundred series, except 799 is the same "hundred series" |   |                         |  |  |  |
| *  | What type of change is i   | being proposed?  |  |  | Minor - editorial change in course title or description which does n change in content or emphasis  |   |                         |  |  |  |
|  |  |  |  | □Mino  | r - a change in prereq  | uisite(s) which do  | oes not imply a change  |  |  |  |
|  |  |  |  |  | content or emphasis, of the   |   | necessary by the efim   |  |  |  |
|  |  |  |  | ∏Mino  | r - a cross listing of a  | course as descri  | ped above               |  |  |  |
|  | Should this course be a  | UK Core Course? ტγ   | es ® No  |  |   |   |                         |  |  |  |
|  | If YES, check the areas  | s that apply:  |  |  |   |   |                         |  |  |  |
|  | ☐ Inquiry - Arts & Crea  | ativity 🖾 Con  | nposition & Communicat   | ions - II  |   |   |                         |  |  |  |
|  | ☐ Inquiry - Humanities   | □ Qua  | intitative Foundations   |  |   |   |                         |  |  |  |
| ☐ Inquiry - Nat/Math/Phys Sci ☐ Statistical Inferential Reasoning ☐ Inquiry - Social Sciences ☐ U.S. Citizenship, Community, Diversity |  |  |  |  |   |   |                         |  |  |  |
|  |  |  |  |  |   |   |                         |  |  |  |
|  | I milidan A cociai aciei   | 11003  |  | y, Diversity   |   |   |                         |  |  |  |
|  | 1 ' '  | nmunications - t 🖺 Glo   | bal Dynamics   | y, Diversity   |   |   |                         |  |  |  |
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| 1.   | Composition & Com  | nmunications - t 🖺 Glo   |  | y, Diversity   |   |   |                         |  |  |  |
| 1.<br>a.   | Composition & Com  | nmunications - t 🖺 Glo   |  | y, Diversity   | Submission  | Date: 2/25/2016   |                         |  |  |  |
|  | Composition & Com  | nmunications - ( Glo   |  | y, Diversity   | Submission  | Date: 2/25/2016   |                         |  |  |  |
| b.   | ☐ Composition & Com<br>General Information<br>Submitted by the Colleg  | nmunications - 1 Glo   |  | y, Diversity   | Submission  | Date: 2/25/2016   |                         |  |  |  |
| b.   | General Information  Submitted by the Colleg  Department/Division:  Is there a change in "ow   | nmunications - t Glo e of: PUBLIC HEALTH  concrethip* of the course?   |  |  | Submission l  | Date: 2/25/2016   |                         |  |  |  |
| b.<br>c.*  | General Information  Submitted by the Colleg  Department/Division:  Is there a change in "ow   | nmunications - ( Glo   | ept Of Biostatistics   | nstead? College<br>Email: andrea.  | of Medicine<br>perkins@uky.edu.Phot   | ne: 218-2021  |                         |  |  |  |
| b.<br>c.*  | Composition & Com General Information Submitted by the Colleg Department/Division: Is there a change in "ow  Yes No If YES   | nmunications - ( Glo   | ept Of Biostatistics<br>nt will offer the course in<br>Andrea Perkins  | nstead? College<br>Email: andrea.  | of Medicine   | ne: 218-2021  |                         |  |  |  |
| b.<br>c.*  | General Information  Submitted by the Colleg  Department/Division:  Is there a change in "ow  Yes No If YES  * Contact Person Name   | nmunications - t Glo  le of: PUBLIC HEALTH  mership" of the course?  what college/departments  the course of the c | ept Of Biostatistics<br>nt will offer the course in<br>Andrea Perkins  | nstead?  College<br>Email: andrea<br>Email: kalhryn  | of Medicine<br>perkins@uky.eduPhot<br>cardarelli@uky.eiPhot   | ne: 218-2021  |                         |  |  |  |
| 1. a. b. c.*   | General Information  Submitted by the Colleg  Department/Division:  Is there a change in "ow  Yes No If YES  * Contact Person Name  * Responsible Faculty IC   | nmunications - t Glo  ie of: PUBLIC HEALTH  conership* of the course?  b; what college/department  coldif different from Contacte:   | ept Of Biostatistics  Int will offer the course in  Andrea Perkins  ct) Kathryn Cardarelli  Semester Followin                                  | nstead?  College<br>Email: andrea<br>Email: kalhryn  | of Medicine<br>perkins@uky.eduPhot<br>cardarelli@uky.eiPhot   | ne: 218-2021<br>ne: 218-0241  |                         |  |  |  |
| b.<br>c.*<br>e.*   | General Information  Submitted by the Colleg  Department/Division:  Is there a change in "ow  Yes No If YES  * Contact Person Name. * Responsible Faculty IC   | nmunications - t Glo  ie of: PUBLIC HEALTH  conership* of the course?  b; what college/department  coldif different from Contacte:   | ept Of Biostatistics  Int will offer the course in  Andrea Perkins  ct) Kathryn Cardarelli  Semester Followin                                  | nstead?  College<br>Email: andrea<br>Email: kalhryn  | of Medicine<br>perkins@uky.eduPhot<br>cardarelli@uky.eiPhot   | ne: 218-2021<br>ne: 218-0241  |                         |  |  |  |
| e.*  | General Information  Submitted by the Colleg  Department/Division:  Is there a change in "ow  Yes No If YES  * Contact Person Name * Responsible Faculty ID  Requested Effective Dal  Designation and Descri   | nmunications - t Glo  ie of: PUBLIC HEALTH  conership* of the course?  continued the course of the c | ept Of Biostatistics  Int will offer the course in  Andrea Perkins  ct) Kathryn Cardarelli  Semester Followin                                  | istead? College Email: andrea. Email: kathryn. ig Approval  N/A  ig Already appro                                  | of Medicine<br>perkins@uky.edu.Phot<br>cardarelli@uky.ei.Phot<br>OR S                               | ne: 218-2021<br>ne: 218-0241  |                         |  |  |  |
| e.*  | General Information  Submitted by the Colleg  Department/Division:  Is there a change in "ow  Yes No If YES  * Contact Person Name. * Responsible Faculty IC   | nmunications - t Glo  ie of: PUBLIC HEALTH  conership* of the course?  continued the course of the c | ept Of Biostatistics  Int will offer the course in  Andrea Perkins  ct) Kathryn Cardarelli  Semester Followin                                  | email: andrea. Email: kalhryn. g Approval  N/A  Already appro  | of Medicine<br>perkins@uky.edu.Phot<br>cardarelli@uky.ei.Phot<br>OR S                               | ne: 218-2021<br>ne: 218-0241  |                         |  |  |  |
| e.*  | General Information  Submitted by the Colleg  Department/Division:  Is there a change in "ow  Yes No If YES  * Contact Person Name * Responsible Faculty ID  Requested Effective Dal  Designation and Descri   | ne of: PUBLIC HEALTH  re of: PUBLIC HEALTH  re of: PUBLIC HEALTH  re of: PUBLIC HEALTH  content of the course?  content of the course?  de: Public HEALTH  re of: PUBLIC HEALTH  | ept Of Biostatistics  Int will offer the course in Andrea Perkins ct) Kathryn Cardarelli  I Semester Followin                                  | Email: andrea. Email: kathryn.  19 Approval  O N/A  O Already appro O Please Add O Please Drop                     | of Medicine perkins@uky.eduPhor cardarelli@uky.eiPhor OR S  ved for DL*                             | ne: 218-2021<br>ne: 218-0241<br>pecific Term: <sup>2</sup>              |                         |  |  |  |
| b.<br>c.*<br>e.*   | General Information  Submitted by the Colleg  Department/Division:  Is there a change in "ow  Yes No If YES  Contact Person Name Responsible Faculty IC  Requested Effective Dal  Designation and Description  | ne of: PUBLIC HEALTH  re of: PUBLIC HEALTH  re of: PUBLIC HEALTH  re of: PUBLIC HEALTH  content of the course?  content of the course?  de: Public HEALTH  re of: PUBLIC HEALTH  | ept Of Biostatistics  Int will offer the course in Andrea Perkins ct) Kathryn Cardarelli  I Semester Followin                                  | Email: andrea. Email: kathryn.  19 Approval  O N/A  O Already appro O Please Add O Please Drop                     | of Medicine perkins@uky.eduPhor cardarelli@uky.eiPhor OR S  ved for DL*                             | ne: 218-2021<br>ne: 218-0241<br>pecific Term: <sup>2</sup>              |                         |  |  |  |
| b.<br>c.*<br>e.*   | General Information  Submitted by the Colleg  Department/Division:  Is there a change in "ow  Yes No If YES  * Contact Person Name * Responsible Faculty IC  Requested Effective Dal  Designation and Description  Current Distance Learning  *If already approved for Dal   | ne of: PUBLIC HEALTH  preship* of the course?  to what college/department  te:  ription of Proposed Course  ng(DL) Status:   | ept Of Biostatistics  Int will offer the course in Andrea Perkins ct) Kathryn Cardarelli  I Semester Followin                                  | Email: andrea. Email: kathryn.  19 Approval  O N/A  O Already appro O Please Add O Please Drop itted unless the de | of Medicine perkins@uky.edu.Phot cardarelli@uky.eiPhot OR S  ved for DL*                            | ne: 218-2021<br>ne: 218-0241<br>pecific Term: <sup>2</sup>              |                         |  |  |  |
| e.*<br>e.*   | General Information  Submitted by the Colleg  Department/Division:  Is there a change in "ow  Yes No If YES  * Contact Person Name * Responsible Faculty IC  Requested Effective Dal  Designation and Description  Current Distance Learning  *If already approved for Dal   | ne of: PUBLIC HEALTH  preship* of the course?  to what college/department  te:  ription of Proposed Course  ng(DL) Status:   | ept Of Biostatistics  Int will offer the course in Andrea Perkins  ct) Kathryn Cardarelli  Semester Followin  urse.  Form must also be subm    | Email: andrea. Email: kathryn.  The proval  N/A  N/A  Please Add Please Drop  iited unless the de                  | of Medicine perkins@uky.eduPhor cardarelli@uky.eiPhor OR S  ved for DL*                             | ne: 218-2021<br>ne: 218-0241<br>pecific Term: <sup>2</sup>              |                         |  |  |  |
| b. c.* e.* 2.  | General Information  Submitted by the Colleg  Department/Division:  Is there a change in "ow  Yes No If YES  * Contact Person Name  * Responsible Faculty ID  Requested Effective Dat  Designation and Description  Current Distance Learning  *If already approved for Date of the College of the College of the College of Date of D | ne of: PUBLIC HEALTH  preship* of the course?  to what college/department  te:  ription of Proposed Course  ng(DL) Status:   | ept Of Biostatistics  Int will offer the course in Andrea Perkins  ct) Kathryn Cardarelli  Semester Followin  urse.  Form must also be subm    | Email: andrea. Email: kathryn.  ng Approval  N/A  Already appro Please Add Please Drop itted unless the de         | of Medicine perkins@uky.edu.Phot cardarelli@uky.eiPhot OR S  ved for DL*                            | ne: 218-2021<br>ne: 218-0241<br>pecific Term: <sup>2</sup>              |                         |  |  |  |
| e.*  | General Information  Submitted by the Colleg  Department/Division:  Is there a change in "ow  Yes No If YES  * Contact Person Name  * Responsible Faculty ID  Requested Effective Dat  Designation and Description  Current Distance Learning  *If already approved for Date of the College of the College of the College of Date of D | ne of: PUBLIC HEALTH  re of: PUBLIC HEALTH  repressip* of the course?  is, what college/department  is  O (if different from Contacte:  ription of Proposed Course)  Ite:  DL, the Distance Learning  BIOMEDICAL NATURE  | ept Of Biostatistics  Int will offer the course in Andrea Perkins  Ct) Kathryn Cardarelli  II Semester Followin  urse.  Form must also be subm | Email: andrea. Email: kathryn.  ng Approval  N/A  N/A  Alleady appro Please Add Please Drop  itted unless the de   | of Medicine perkins@uky.edu.Phot cardarelli@uky.eiPhot OR S  ved for DL*                            | ne: 218-2021 ne: 218-0241 pecific Term: <sup>2</sup> necking this box ) | that the proposed chang |  |  |  |

|   |  |                           | ₩ N#      | ٨                       |  | 1          | Currently <sup>3</sup><br>Number): |   | ed with (Prefix &                | none         |  |
|---|--|---------------------------|-----------|-------------------------|--|------------|------------------------------------|---|----------------------------------|--------------|--|
|   | Proposed – ADD <sup>3</sup> Cross-listing (Prefix & Number);   |                           |           |                         |  |            |                                    |   |                                  |              |  |
|   | Proposed – REMOVE <sup>3,4</sup> Cross-listing (Prefix & Number):  |                           |           |                         |  |            |                                    | :                                       |                                  |              |  |
| e.                                      | Courses must be described by at least one of the meeting patterns below. Include number of actual contact hours 5 for each meeting pattern   |                           |           |                         |  |            |                                    |   |                                  |              |  |
| Curr                                    | rrent: Lecture Laborate  |                           |           | ory <sup><u>5</u></sup> |  | Recitation | E                                  | Discussion                              | Indep. Study                     |              |  |
|   |  | Clinical                  |           | Colfoqui                | um   |            | Practicum                          | <u>.</u>                                | Research                         | Residency    |  |
|   |  | Seminar                   |           | Studio                  |  |            | Other                              |   | Please exptain:                  |              |  |
| Prop                                    | osed; *  | Lecture<br>3              |           | Laborate                | ory <sup>5</sup>   |            | Recitation                         |   | Discussion                       | Indep. Study |  |
|   |  | Clinical                  |           | Colloqui                | um   |            | Practicum                          | F                                       | Research                         | Residency    |  |
|   |  | Seminar                   |           | Studio                  |  |            | Other.                             |   | Please explain:                  |              |  |
| f.                                      | Current Grad   | ling System:              |           |                         | Graduate School  | Grade Sca  | le                                 |   | <u> </u>                         |              |  |
|   | Proposed Grading System:*  |                           |           |                         | ○ Letter (A, B, C, etc.) ○ Pass/Fail ○ Medicine Numeric Grade (Non-medical students will receive a letter grade) ⑤ Graduate School Grade Scale |            |                                    |   |                                  |              |  |
| g.                                      | Current num  | ber of credit hours:      |           |                         |  | 3          |                                    |   | Proposed number of redit hours:* | 3            |  |
| h.*                                     | Currently, is  | this course repeatable    | for add   | itional c               | redit?   |            |                                    |   |                                  | ○Yes ® No    |  |
| *                                       | Proposed to t  | e repeatable for additio  | nal credi | ŧ7                      |  |            |                                    |   |                                  | ○Yes ® No    |  |
|   | If YES:  | Maximum numbe             | r of cred | it hours:               |  |            |                                    |   |                                  |              |  |
|   | If YES:  | Will this course a        | liow mul  | tiple reg               | istrations during th   | e same s   | mester?                            | - · · · · · · · · · · · · · · · · · · · |                                  | ○Yes ○No     |  |
| *************************************** | This course is a technical introduction to the area of biomedical natural language processing (NLP). In the field of biomedical informatics, this focuses on the common steps in extracting information from textual data that arises from biomedical literature and clinical documents. Topics involve n-gram models, tokenization, POS tagging, and parsing. |                           |           |                         |  |            |                                    |   |                                  |              |  |
| *                                       | Proposed Cor   | urse Description for Bull | etin:     |                         |  |            |                                    |   |                                  | · · · · · ·  |  |
|   | Proposed Course Description for Bulletin: Same   |                           |           |                         |  |            |                                    |   |                                  |              |  |
| J.                                      | Current Prerequisites, if any:   |                           |           |                         |  |            |                                    |   |                                  |              |  |
|   | Prereq: MA 123 (or equivalent) or consent of instructor.   |                           |           |                         |  |            |                                    |   |                                  |              |  |
| *                                       | Proposed Pre   | requisites, if any:       |           |                         |  |            |                                    |   |                                  |              |  |
| *                                       | Same   |                           |           |                         |  |            |                                    |   |                                  |              |  |
| k.                                      | Current Sup  | olementary Teaching C     | Compon    | ent, if a               | ıy:  |            |                                    |   | ී Community-Based E              | xperience    |  |

|          |  | ి Service Learning<br>ె Both                                    |                                       |  |
|----------|--|---|---------------------------------------|--|
| 11.21    | 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:  |   | i                                     |  |
| 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 Medicince, Department of Internal Medicine  |   |                                       |  |
| b.*      | Will modifying this course result in a new requirement <sup>2</sup> for ANY program?   |   | ○ Yes ୬ No                            |  |
| <u> </u> | If YES <sup>2</sup> , list the program(s) here:  |   |                                       |  |
|          |  |   |                                       |  |
| 6.       | Information to be Placed on Syllabus.  |   |                                       |  |
| a.       | Check box if changed to 400G or 500-level course you must send in a syllabus and you must send | st include the differentiation<br>udents; and/or (ii) establish | n belween under<br>ing different grad |  |
|          |  |   |                                       |  |

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 appropriate academic Council for normal processing and contact person is informed.

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

□ Signature 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 thrs per wk for a semester for 1 credit hour. (See 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



Office of Medical Education

800 Rose Street, MN 104 UKMC Lexington, KY 40536-0298

Vice Dean for Education

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February 22, 2016

Dear Dr. Cardarelli;

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

Loxington, IVE 40000

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