APPLICATION FOR NEW COURSE

1. Submitted by College of Communications and Information Studies Date April 5, 2005
   Department/Division offering course Sch. of Library and Information Science

2. Proposed designation and Bulletin description of this course
   a. Prefix and Number LIS639
   b. Title* Intro. to Medical Informatics
      *NOTE: If the title is longer than 24 characters (including spaces), write
      A sensible title (not exceeding 24 characters) for use on transcripts Medical Informatics
   c. Lecture/Discussion hours per week 3
   d. Laboratory hours per week
   e. Studio hours per week
   f. Credits 3
   g. Course description see attached
   h. Prerequisites (if any)
   i. May be repeated to a maximum of ____________________________ (if applicable)

4. To be cross-listed as
   b. Prefix and Number CJT 639
   Signature, Chairman, cross-listing department

5. Effective Date Fall 2005 (semester and year)

6. Course to be offered ☐ Fall ☑ Spring ☐ Summer

7. Will the course be offered each year? (Explain if not annually)
   ☑ Yes ☐ No

8. Why is this course needed?
   Taught as a special topics for several years, we now seek to make it a regular course. It will meet the gring interest in
   information centers, health sciences libraries and will support the health communication emphasis in the CIS doctoral program

9. a. By whom will the course be taught? Sujin Kim, Ph.D. joint appointment with Pathology
   b. Are facilities for teaching the course now available?
      If not, what plans have been made for providing them? ☑ Yes ☐ No
APPLICATION FOR NEW COURSE

10. What enrollment may be reasonably anticipated?  20

11. Will this course serve students in the Department primarily? ☒ Yes ☐ No

   Will it be of service to a significant number of students outside the Department?
   If so, explain. ☐ Yes ☒ No

Will the course serve as a University Studies Program course? ☐ Yes ☒ No

If yes, under what Area?

12. Check the category most applicable to this course
   ☐ traditional; offered in corresponding departments elsewhere;
   ☒ relatively new, now being widely established
   ☐ not yet to be found in many (or any) other universities

13. Is this course applicable to the requirements for at least one degree or certificate at the
    University of Kentucky? ☒ Yes ☐ No

14. Is this course part of a proposed new program:
    If yes, which? ☐ Yes ☒ No

15. Will adding this course change the degree requirements in one or more programs?*
    If yes, explain the change(s) below

16. Attach a list of the major teaching objectives of the proposed course and outline and/or reference list to be used.

17. If the course is a 100-200 level course, please submit evidence (e.g., correspondence) that the Community College System has
    been consulted. ☐ Check here if 100-200.

18. If the course is 400G or 500 level, include syllabi or course statement showing differentiation for undergraduate and graduate
    students in assignments, grading criteria, and grading scales. ☐ Check here if 400G-500.

19. Within the Department, who should be contacted for further information about the proposed course?

   Name  Sujin Kim  Phone Extension  78657

*NOTE: Approval of this course will constitute approval of the program change unless other program modifications are proposed.
APPLICATION FOR NEW COURSE

Signatures of Approval:

[Signature]
Department Chair

[Signature]
Dean of the College

Date

Date

Date

Date of Notice to the Faculty

*Undergraduate Council

*University Studies

*Graduate Council

*Academic Council for the Medical Center

*Senate Council (Chair)

*If applicable, as provided by the Rules of the University Senate

Date of Notice to University Senate

ACTION OTHER THAN APPROVAL

Rev 3/04
LIS639, Introduction to Medical Informatics
Provides an introduction to an interdisciplinary field that essentially seeks to apply information technologies to improve all aspects of healthcare. The course explores a number of topics central to understanding the field: the nature of biomedical information, the use of electronic medical record, the role of information technologies to support clinical decision making, healthcare and informatics standards, biomedical information storage and retrieval, system analysis and technology assessment, and essential issues of information technology in medical education and medical ethics. Prereq: LIS602 or consent of instructor.
LIS690 (Sec 201 & 202)  
Introduction to Medical Informatics (Web-based course)  
Spring 2005 (Call #: 03454/03455)  

School of Library Information Science  
University of Kentucky  

Instructor: Sujin Kim  
Office: 518K King Library South  
Office Hour: Tuesdays 3:30-5:30p.m  
or by appointment  

E-mail: sujinkim@uky.edu  
Phone: (859) 257-8657  

NOTE: This syllabus is subject to change.  Last modified: January 14, 2005  

1. Course Description/Objectives:  
   
This course is designed to introduce the interdisciplinary field of medical informatics to health information professionals. Medical Informatics is a developing field that essentially seeks to apply information and computing technologies to improve all aspects of healthcare, including patient care, research, and education. During the semester we will explore a number of topics central to understanding the field, including: the nature of biomedical information, the electronic medical record, the role of information and computing technologies to support clinical decision making, healthcare and informatics standards, information retrieval, system analysis and technology assessment, and essential issues of information technology in medical education and medical ethics. By the end of this Web-based course, students are expected to be able to understand broad aspects of the field and can use this as a foundation for further education, training, and work in health information professions.  

2. Readings:  
   
   • Other readings as assigned. Articles, book sections, online sources, etc.
3. In-Class meetings:
   - First meeting: Saturday, January 22, 2005 at 10 AM till 12:30PM (LCLI 355)
   - Second meeting: Saturday, April 23, 2005 at 10AM till 12:30PM (LCLI 355)

4. General Course Policy:

   The challenges related to teaching a course on-line are non-trivial. In particular, it requires that students make serious efforts to keep up with readings and work, take advantage of the communication mechanisms and other tools built into the Blackboard courseware, and to continually self-assess themselves to ensure they have a grasp of the subject matter. It is particularly important to log onto the course often in order to keep up with the topics being discussed.

   The course will be taught through a series of individually designed 14 weekly lessons, each of which relates to a specific area in medical informatics. Each weekly lesson will consist of one to four learning units and it will be posted on Blackboard before Saturday midnight.

5. Grading:
   Article Summaries(10): 20% (Individual Assignment)
   Literature Review Paper/Presentation/Critique Summary: 30 % (Group Project)
   Final Examination: 25%
   Exercises (3): 15% (Each assignment will be announced later in the semester).
   Participation: 10% (a short learning evaluation essay plus participation of class discussion board)

   Grade Scale:  
   A (above 90%)
   B (between 80% and 89%)
   C (between 70% and 79%)
   Fail (69% or less)

6. Article Summaries (20%):
   This assignment is meant to introduce you some of the scholarly literature associated with medical informatics. Each article is assigned according to each week’s class lesson topic. In addition, use this assignment as your own benefit to be ready and keep up with each week’s lesson. (Due date is listed in course calendar below.)
   a) You will be given one or two articles to write a short summary and drop it on Blackboard Digital Drop Box (Note: Select only one article of your choice).
   b) Provide a complete citation of what you read (APA writing style, preferably), and summarize and critique the article in one, double-spaced page. (Note: Quote from the work only if you think the exact wording is important or particularly well put. Most important points: critique what the author says, and connect what you read to your own experience, if possible. It is also critical to connect and
include what your instructor gives you each week’s class discussion topics in a summary.

c) Follow the file naming convention as given (for example, if Lesson 1 summary written by John Smith, then L1SumSmithJohn.doc).

7. Literature Review Paper/Presentation/Critique Summary (30%):
   a) Literature review paper: A large part of your grade will be based on this group project on a topic of your choice related in some way to medical informatics or the health information profession in general. This review paper should be approximately 12-15 pages, double-spaced, page numbers on the bottom, center no more than 1.25" margins, a descriptive yet concise title on a separate title page that includes your name. Use a consistent reference style of your choice (e.g. APA writing style preferably), and please use Microsoft Word.
   (Research Paper AND Power Point Due by 11:59PM, March 12, 2005)

   b) Presentation: The presentation portion of this grade will require that you submit a presentation, in the format of Microsoft Power Point (Note: Please reformat it, if you use some other presentation software other than MS Power Point) along with the full paper to the discussion board for critique by fellow students.
   (Research Paper AND Power Point Due by 11:59PM, March 12, 2005)

   c) Critique Posting/Critique Summary: Each student will critique (as a response to posted papers/presentations) one other group's paper and presentation as part of their participation grade. Each group should collect discussion board critiques, write a summary, and drop it on the Blackboard Digital Drop Box. When writing a summary, include who writes what.
   (Critique Posting Due by 11:59PM, March 19, 2005)
   (Critique Summary Due by 11:59PM, March 26, 2005)

   d) File Naming: Follow the file naming convention as given
   (for example, if Group 1 turns in review paper, then G1Review.doc).
   (for example, if Group 1 turns in Power Point presentation, then
   G1Presentation.ppt).
   (for example, if Group 1 turns in discussion summary, then G1Summary.doc).

8. Final Examination (25%):
A final exam will be administered in our second in-class meeting on April 23, 2005
starting at 10AM till 12:30PM. It will be an open book/notes, comprehensive exam. More
details will follow later in the semester.

9. Exercises (15%):
Each assignment will be announced later in the semester.

10. Participation (10%): Learning Experience Essay, Class discussion, etc.
The act of stepping outside yourself and examining your thoughts and your work is a valuable habit to cultivate as you prepare yourself for life-long learning. I want you to reflect on your learning for the entire semester. If you have never thought about yourself as a learner; never studied your learning style, this is an opportunity to begin. There is not right or wrong way to write this. Possible approaches and questions to write this learning evaluation essay for yourself include: what did you discover for yourself?; what experiences made you feel informative about medical informatics?; what obstacles did you face and how did you overcome them?; were you able to observe yourself in the process of learning?; did you identify your learning style?; and did you apply any knowledge and experience to your life experiences outside of formal education. Whatever approaches you choose, I advise you not to wait until the last day to begin. Jot down ideas throughout the semester, and be sure to save some critiques from me and your fellow students. At minimum, your essay should be two double-spaced pages and drop it on the Blackboard Digital Drop Box. (NOTE: File naming; if it is written by John Smith then LearningJohnSmith.doc)

11. Submitting Assignments:
Many assignments will be submitted using the "Digital Drop Box" feature on Blackboard. Please use MS Word for written assignments. PLEASE FOLLOW THE FILE NAMING CONVENTION AS INSTRUCTED IN EACH ASSIGNMENT. Details for turning in other types of assignments will be provided with each exercise.

12. Late Policy:
Assignments that are turned in late will be marked one letter grade lower unless prior approval from the instructor has been obtained. It will be based on time step provided by Blackboard Digital Drop Box. (NOTE: Only assignments submitted no later than one week after original due date will be graded.)

13. Other Course Policies:
You may expect to spend approximately 9 hours per week on this course, which is the standard for any 3 credit hour graduate level course. You may need less time, but be prepared for the fact that some weeks may be busier than others.

Students are expected to do all of their graded work independently (unless instructed to do otherwise such as Group Project) and, in general, to engage in ethical behavior regarding academic work. Any evidence of cheating and/or plagiarism will be dealt with immediately per university regulations.

14. Communication:
NOTE: Any official announcements will be posted on Blackboard.
If you have questions during the course of the semester, you have a few options for communicating with the instructor or other classmates. First, a Course Q&A section of the Discussion Board has been created for students to ask each other questions regarding the course in general. Often, simple problems can be resolved by utilizing this mechanism.
Second, you may also wish to contact the instructor directly (sujinkim@uky.edu). Given that I am teaching two courses (aprx. 52 students), please understand that it may take up to 48 hours to respond to some emails, although most will be responded to before then. If several students have emailed similar concerns, I may try to address these with one email to the entire class. For details regarding cheating and plagiarism please refer to Section 6.4.0-1 of the Student Rights and Responsibilities Handbook (http://www.uky.edu/StudentAffairs/Code/) and Section 6.3 of the University Senate Rules (http://www.uky.edu/USC/Section VI.pdf) for details.

15. Special Considerations:
If you have a disability that requires special testing accommodations or other modifications, please notify both the instructor and Disability Resources and Services by the second week of the term. You may be asked to provide documentation of your disability to determine the appropriateness of accommodations. To notify Disability Resources and Services, contact and visit the UK Disability Student Resource Center at http://www.uky.edu/StudentAffairs/DisabilityResourceCenter/.

16. Course Calendar:

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<tr>
<th>Date</th>
<th>Topic</th>
<th>Reading</th>
<th>Note</th>
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<tbody>
<tr>
<td>1/22</td>
<td>Course Overview&lt;br&gt;Course logistics&lt;br&gt;Blackboard Features</td>
<td>No reading</td>
<td>• In-Class meeting: 10AM-12:30PM; LCLI 355</td>
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<tr>
<td>Date</td>
<td>Lesson</td>
<td>Reading/Assignments</td>
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| 2/12  | Lesson 4: Essential Concept for Medical Computing | - Shortliffe et al. (2000) Ch: 4  
|       |                                         | - Lesson 4 summary due by 11:59PM, Feb. 12, 2005  
- Exercise 1 due by 11:59PM, Feb. 12, 2005 |
| 2/19  | Lesson 5: Standards in Medical Informatics | - Shortliffe et al. (2000) Ch: 6  
|       |                                         | - Lesson 5 summary due by 11:59PM, Feb. 19, 2005 |
|       |                                         | - Lesson 6 summary due by 11:59PM, Feb. 26, 2005 |
|       |                                         | - Lesson 7 summary due by 11:59PM, Mar. 5, 2005  
- Exercise 2 due by 11:59PM, Mar. 5, 2005 |
| 3/12  | Lesson 8: Bioinformatics                 | - Shortliffe et al. (2000) Ch: 18  
|       |                                         | - Lesson 8 summary due by 11:59PM, Mar. 12, 2005  
- Review paper AND presentation slide due by 11:59PM, Mar. 12, 2005 |
| 3/19  | Spring Break (No class)                 | No reading                                                                         |
|       |                                         | - Critique posting due by 11:59PM, Mar. 19, 2005 |
|       |                                         | - Lesson 9 summary due by 11:59PM, Mar. 26, 2005  
- Critique Summary due by 11:59PM, Mar. 26, 2005 |
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<tr>
<th>Date</th>
<th>Lesson</th>
<th>Description</th>
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| 4/2  | Lesson 10: Evidence Based Medicine I | - Shortliffe et al. (2000) Ch: 3  
|      | Lesson 10 summary due by 11:59PM, Apr. 2, 2005 |
|      | Lesson 11 summary due by 11:59PM, Apr. 9, 2005  
- Exercise 3 due by 11:59PM, Apr. 9 2005 |
|      | Lesson 12 summary due by 11:59PM, Apr. 16, 2005 |
| 4/23 | Final Exam | No reading |
|      | In-Class meeting: 10AM-12:30PM; LCLI 355 |
|      | Learning Experience Essay Due by 11:59PM, Apr. 30, 2005 |
| 5/6  | Lesson 14: Ethics and Health Informatics | - Shortliffe et al. (2000) Ch: 7 |

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