

INSTRUCTIONS FOR COMPLETION OF THE UAMS GRADUATE SCHOOL COURSE APPROVAL FORM

1. Please save this PDF to your computer for editing.
2. The form has been designed with fields for your responses, and these are indicated in blue and gray shading. Please complete all fields. Use the "tab" key to move between fields. A 'beep' will sound if you attempt to enter a response that contains more characters than is permitted. **IF YOU NEED HELP IN ANY OF THE FIELDS, PRESS THE F1 KEY AND A HELP WINDOW WILL OPEN.**
3. Print the document, and then obtain the appropriate signatures before submitting the form to the Graduate Office.

**COURSE APPROVAL FORM, Graduate School
University of Arkansas for Medical Sciences**

This form and attached materials are due in the Graduate School Office on the first Monday of the month. All forms will be submitted to the UAMS Graduate Council Curriculum Committee for review and approval prior to consideration by the Graduate Council.

This form is not required for minor stylistic or editorial corrections to the title or course descriptions. These may be made when revising the catalog copy.

1. Program: Department of Biomedical Informatics

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Department *Alpha (Department) Code*

2. Action proposed (indicate one or more items): Effective term: Fall 2017

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|--|---|--|
| <input checked="" type="checkbox"/> Add course | <input type="checkbox"/> Change title | |
| <input type="checkbox"/> Eliminate course
(No outline needed) | <input type="checkbox"/> Change credit hours from: _____ to _____ | |
| | <input type="checkbox"/> Change course number
from: _____ to _____ | |
| | _____ Change description | |

3. Course ID, title and description:

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Quality Informatics
prefix *number* *title (20 characters)*

Informatics of Quality and Patient Safety
catalog name (40 characters)

Scheduled offering: Fall Spring Summer On demand

To cross list a course, use the Course Cross Listing Form.

Describe the course in sentence form using 50 words or less as it is to appear in the catalog. List prerequisites, co-requisites and possible off-site instructional opportunities or requirements.

This graduate course presents topics in healthcare quality and safety. Topics focus on methods and tools to achieve the Institute of Medicine components of healthcare quality in clinical settings.

4. Justification:

Justify this change in terms of course needs or curriculum improvement. State the effect of this change on any degree programs. Identify the courses to be eliminated, if any, if this course is approved. (Course Approval Forms must also be submitted for these courses) Identify any existing course or courses that would extensively overlap or be duplicated if the proposed curricular change occurs. Provide statements of concurrence with the change from the chairperson(s) and dean(s) of the programs/areas offering the affected courses.

There will be no change to current degree plans.

SYLLABUS

COURSE NUMBER: BIOM _____

COURSE TITLE: The Healthcare Informatics of Quality and Patient Safety

COURSE DESCRIPTION:

This graduate course presents topics in healthcare quality and safety. Topics focus on methods and tools to achieve the Institute of Medicine components of healthcare quality in clinical settings.

PRE-REQUISITES: none

GENERAL INFORMATION:

CREDITS: 1

SEMESTER: Fall, Spring

LOCATION: Campus and Online (hybrid)

FACULTY: Christopher Cargile, MD and Feliciano Yu, MD

SPECIAL ASSISTANCE: Students who believe they may need accommodations in this class based on mental or physical impairments must contact the Students with a disability that need accommodations should contact the Associate Dean for Academic Affairs at (501) 686-5730 to schedule an appointment to discuss your needs. Please make arrangements as soon as possible so accommodations can be made in a timely manner.

COURSE OBJECTIVES:

Upon successful completion of this course, the student is able to:

1. Describe basic concepts in healthcare quality and patient safety
2. Discuss common quality tools and their application in healthcare.
3. Describe the perspectives of patients, providers, facility administration and payers with respect to healthcare quality.
4. Describe the impact of organizational leadership and culture on healthcare quality.
5. Describe how healthcare quality is measured.
6. Describe the role of measurement in quality improvement.

7. Discuss the role of healthcare quality improvement in evidence-based medicine and the cycle of clinical and translational research.
8. Describe ways in which health information systems might impact healthcare quality and patient safety
9. Describe basic concepts of health information technology (HIT) safety and the emerging models for ensuring safe implementation of HIT.

MAJOR TOPICS:

Need for quality improvement in healthcare
 Institute of Medicine Quality Components
 Healthcare quality definition and measurement
 Quality improvement theory, systems and tools
 Provider-focused quality
 Patient experience and satisfaction
 Purchaser perspective
 Evidence-based medicine
 Measurement in healthcare quality
 Quality improvement as research
 Quality improvement registries
 Medicolegal implications of quality
 Facility accreditation
 Implementing healthcare quality improvement
 HIT Safety Framework

ASSIGNMENTS:

Listed below for each week.

- Week 1: Defining quality in healthcare
Assignment: End of chapter questions
Reading: Joshi *et al.* Chapters 1 and 2
Quiz: Questions based on end of chapter questions
- Week 2: Quality improvement theory, systems and tools
Assignment: End of chapter questions
Reading: Joshi *et al.* Chapters 3, 4 and 10
Quiz: Questions based on end of chapter questions
- Week 3: Choosing and using quality indicators
Assignment: End of chapter questions
Reading: Joshi *et al.* Chapters 5-7

- Quiz:* Questions based on end of chapter questions
- Week 4: Provider-focused efforts
Assignment: End of chapter questions
Reading: Joshi *et al.* Chapter 8
Quiz: Questions based on end of chapter questions
- Week 5: Patient experience of care
Assignment: End of chapter questions
Reading: Joshi *et al.* Chapters 9
Quiz: Questions based on end of chapter questions
- Week 6: Patient Safety and medical errors
Assignment: End of chapter questions
Reading: Joshi *et al.* Chapter 11
Quiz: Questions based on end of chapter questions
- Week 7: Evidence-based care
Assignment: End of chapter questions
Reading: from the primary literature; Joshi *et al.* Chapter 12
Quiz: Questions based on end of chapter questions
- Week 8: Medicolegal implications of quality
Assignment: End of chapter questions
Reading: Joshi *et al.* Chapter 17
Quiz: Questions based on end of chapter questions
- Week 9: Quality improvement as research
Assignment: End of chapter questions
Reading: from the primary literature
Quiz: Questions based on end of chapter questions
- Week 10: Quality improvement registries
Assignment: End of chapter questions
Reading: Instructor provided, Abdelhak history of registries in healthcare; Drolet article classification of registries.
Quiz: Questions based on end of chapter questions
- Week 11: Overview of EHR Safety

Assignment:

Reading: Sittig, Singh Chapters 1-3, Articles provided by the professor

Quiz: TBD

Week 12: Implementing SAFE EHRs

Assignment: Articles TBD

Reading: Sittig, Singh Chapter 4-6

Quiz: TBD

Week 13: Assessing Safety of EHR Systems

Assignment: Articles TBD

Reading: Sittig, Singh Chapters 8-13

Quiz: TBD

Week 14: Group Site Visits

Assignment: Group site visits: students are assigned to two or three groups, depending on the number of students. They will visit and interview IT, CIO from local hospitals and ask questions about their EMR implementation. The goal would be to appreciate the varying ideas of how EMRs are implemented in relation to the concepts of EHR/HIT Safety.

Reading: Joshi *et al.* Chapter 19

Quiz: Questions based on end of chapter questions

Week 15: **Project presentations**

TEXTBOOKS:

Maulik S. Joshi, Elizabeth R. Ransom, David B. Nash, Scott B. Ransom, *The Healthcare Quality Book: Vision, Strategy, and Tools*, Third Edition 3rd Ed. Health Administration Press, 2014.

Dean F. Sittig and Hardeep Singh, Eds., *SAFER Electronic Health Records: Safety Assurance Factors for EHR Resilience*, Apple Academic Press, 2015.

EVALUATION:

This is a graded course. Grades will be assigned based on their course average according to the following scale: A (93-100), B (85-92), C(75-84), D(65-74), Fail (lower than 64).

The course average will be comprised of course assignments and the Major project.

Quizzes.....	30%
Midterm exam.....	20%
Final exam.....	20%
Project.....	30%

6. Program Approvals:

Fred Prior, PhD, Department of Biomedical Informatics
(Print or type) Chairperson, Academic Department or Area

Fred Prior 10/26/16
(Signature) Chairperson, Academic Department or Area Date

[Signature] 11/17/2016
College Dean (Dean McGehee for College of Medicine) Date

7. Graduate School Approvals

Eric C. Pitt 11/17/2016
Chairperson, Graduate Council Date

[Signature] 11/17/2016
Dean of the Graduate School Date