Semester: Fall 2017
Course Number and Title: 501 410:02 Information Systems for Health Care
Course Day and Time: Monday’s 6:40 pm – 9:30 pm
Course Instructor and Contact Information: Rhonda M. Smith, PhD
Rhonda.Smith@rutgers.edu
Course Classroom BE 219
Office Hours and Location: By Arrangement
Handouts as provided
Additional Materials: Handouts as provided

Course Description (catalog): Exploration of the types and uses of information systems; their management and strategic application; related privacy policies and their transformative role in health care delivery.

Core Competencies Addressed: Health information Systems management and assessment (LEAP & AUPHA)
After completing this course, you will demonstrate an understanding of:
(a) HIMS core components and basic functions; the types and uses of different technology and applications; the planning, management and evaluation of HIMS in complex systems and networks; HIMS standards, policy and governance and: the analysis of adaptive information systems, data applications and project management in real world settings.
(b) basic skills encompassing complex problem solving and critical thinking, written, verbal and interpersonal communication, data analysis and understanding of informatics, quantitative and analytic reasoning and professional and leadership development.

Course Objectives:
✓ Understand HIMS core components and basic functions
✓ Describe the managerial roles and functions in HIMS
✓ Explain and categorize various HIMS technologies and applications
✓ Assess HIMS planning, management and evaluation in complex health systems
✓ Understand and assess interactive health networks, EMRs, and complex adaptive systems
✓ Define and explain HIMS standards, policy and governance
✓ Apply HIMS theory to address current challenges in health care delivery
Class Outline by Week:

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<th>Week</th>
<th>Topic</th>
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| Sept 11th | Review of course & class outline of assignments, testing & grading composition  
Instructor Presentation:  
Health IT Regulatory Environment  
Readings Part I HIT Strategic Alignment  
Chapter 1: Connecting the Strategic Dots: Does HIT Matter?  
Chapter 2: External Environment |
| Sept 18th | Readings Part I HIT Strategic Alignment  
Chapter 3: Government Policy & Healthcare Reform  
Chapter 4: Leadership: The Case of the Healthcare CIO  
Chapter 5: HIT Governance & Decision Rights  
Instructor Presentation:  
Health Information Exchanges  
Continuum of Care |
| Sept 25th | Readings: Part II Operational Effectiveness  
Chapter 6: HIT Architecture & Infrastructure  
Chapter 7: HIT Service Management  
Guest Lecturer: Maged Mohammed, MBA  
Assistant Director, Office of Information Technology  
Robert Wood Johnson Medical School |
| Oct 2th   | First exam covering Readings and Instructor Presentations through 9/27/16 |
| October 9th | Guest Speaker: Al Tallia, MD, Chair Department of Family Medicine  
Robert Wood Johnson Medical School  
Accountable Care Organizations (ACOs)  
Population Health Management & The Institute for Healthcare Improvement’s “Triple Aim” concept. |
| Oct 16th  | Readings: Part II Operational Effectiveness  
Chapter 8: Systems Selection & Contract Management  
Chapter 9: Applications: Electronic Health Records  
Electronic Health Records and Electronic Medical Records  
Updates on Meaningful Use and ICD10  
Instructor Presentation:  
Electronic Health Records and Meaningful Use |
Oct 23th:  Readings: Part II Operational Effectiveness  
Chapter 10: Application Management/Administrative and Financial Systems  
Group assignments and Discussion

Oct 30th:  Second exam covering Readings Chapters 6 – 10 and Instructor Presentations through 10/23/16

Nov 6th:  No Class – Work on Presentations

Nov 13th:  Reading: Part III Strategic Competitive Advantage  
Chapter 11: Project Portfolio Management  
Chapter 12: The Knowledge Enabled Organization  
Chapter 13: HIT Value Analysis

Nov 20th:  Student Presentations

Nov 27th:  Student Presentations

Dec. 4:  Student Presentations

Dec 11th:  Third Exam – Cumulative of all content reviewed throughout the course.
Course Assessment and Grading:

Successful completion of exams, project and class participation satisfies the AUPAH and LEAP core competency described above. Final grades will be calculated according to the following criteria:

20%  Exam 1  
20%  Exam 2  
20%  Exam 3 Cumulative  

*The examinations demonstrate the student’s ability to:*  
- Understand HIMS core components and basic functions  
- Describe the managerial roles and functions in HIMS  
- Explain and categorize various HIMS technologies and applications  
- Assess HIMS planning, management and evaluation in complex health systems  
- Understand and assess interactive health networks, EMRs, and complex adaptive systems  
- Define and explain HIMS standards, policy and governance  

20%  Project Assignment - Presentation  
*This assignment demonstrates the student’s ability to:*  
- Work with a Team  
- Apply HIMS theory to address current challenges in health care delivery  
- Analyze and apply core competencies including critical thinking and quantitative reasoning, data analysis and understanding of informatics and complex problem solving  

*Group Assignments*  
- Students will be assigned to either a Presentation Team or an Evaluator role.  
- A 30 minute group Power Point Presentation with each student presenting for 5 – 10 minutes will be required by the Presentation teams  
- In addition a 3-5 pages Executive Summary Report will be handed in with a bibliography of research sources  
- The Evaluators will review the presentation and the following week present a critical evaluation of the presentation.  
- Evaluators will work in pairs and will be expected to evaluate multiple presentations.  
- Potential Student Presentation Topics:  
  - Health Information Exchanges across the United States  
  - Accountable Care Organizations  
  - EMR functional requirements and cost comparisons of leading vendors  
  - Impact of Meaningful Use on providers and/or EHR vendors  
  - Uses of Big Data in Health Care  
  - Actual System Selection Process
20%  **Class/Group Participation and scores on any pop up quizzes**
This assignment demonstrates the student’s ability to:
- Assess real life case studies and offer rational and evidence based solutions
- Demonstrate critical thinking and analytic reasoning, verbal and interpersonal communication skills, and application of theory to practice

**Attendance and Cancellation of Classes:** In accordance with Rutgers University regulations, attendance is expected at all regularly scheduled meetings of a course and individual courses may set policies for maximum absences. Please refer to the link below for more specific information:

**Academic Integrity:**

Academic Integrity is vital to the mission of Rutgers, to education at Rutgers and membership in the Rutgers community. It is a core value that supports trust among students, and between students and teachers. It is also a shared value; administration, faculty and students each play a vital part in promoting, securing and nurturing it.

Academic dishonesty is not an individual act that affects only the students involved. It violates communal trust, impacts other members of the community, and is an offense against scholarship. For this reason, any instance of cheating or plagiarism will be dealt with harshly.

Honesty matters. As a shared value, administration, faculty and students each play a vital part in promoting, securing and nurturing it. See the Rutgers Academic Code and Academic Oath at:

[http://academicintegrity.rutgers.edu/](http://academicintegrity.rutgers.edu/)