

**STATE UNIVERSITY OF NEW YORK
COLLEGE OF TECHNOLOGY
CANTON, NEW YORK**



MASTER SYLLABUS

**COURSE NUMBER – COURSE NAME
HSMB 311 – Health Care Information Technology**

Created by: M. Fiacco

Updated by:

School of Business and Liberal Arts

Department: Business

Semester/Year: Fall 2019

- A. **TITLE:** Health Care Information Technology
- B. **COURSE NUMBER:** HSMB 311
- C. **CREDIT HOURS:** (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity)

Credit Hours: 3
Lecture Hours: 3 per week
Lab Hours: per week
 Other: per week

Course Length: Weeks

- D. **WRITING INTENSIVE COURSE:** Yes No

- E. **GER CATEGORY:** None: Yes: GER
If course satisfies more than one: GER

- F. **SEMESTER(S) OFFERED:** Fall Spring Fall & Spring

- G. **COURSE DESCRIPTION:**

The course provides a comprehensive overview of health information systems and technology in healthcare delivery and public health. It explores the ways in which health information technology can assist healthcare managers in setting strategic goals, budgeting, personnel management, and data collection. The course also provides students with the strategic tools for planning, selecting, building, and implementing the health information systems' platforms necessary for the direct patient care and the management of hospital and public health sectors.

- H. **PRE-REQUISITES:** None Yes If yes, list below:

HSMB 304 - U.S. Health Care System course and HSMB 200 Medical Terminology course, or permission of instructor.

CO-REQUISITES: None Yes If yes, list below:

I. STUDENT LEARNING OUTCOMES: (see key below)

By the end of this course, the student will be able to:

<u>Course Student Learning Outcome</u> <u>[SLO]</u>	<u>Program Student Learning Outcome</u> <u>[PSLO]</u>	<u>GER</u> <i>[If Applicable]</i>	<u>ISLO & SUBSETS</u>	
1. Describe the impact of health information systems and technology on healthcare delivery.	Demonstrate effective oral and/or written communication skills.		1-Comm Skills ISLO ISLO	W Subsets Subsets Subsets
2. Analyze operational aspects in managing health information technology.	Analyze alternative management solutions in healthcare related problems and challenges. .		2-Crit Think ISLO ISLO	IA Subsets Subsets Subsets
3. Analyze current health care challenges and how health information systems might help managers in meeting those challenges.	Analyze alternative management solutions in healthcare related problems and challenges. .		2-Crit Think ISLO ISLO	IA Subsets Subsets Subsets
4. Evaluate methods of strategic planning, decision making and evaluation of health information systems utilization for healthcare delivery.	Demonstrate knowledge of strategic planning and decision making in the healthcare organization.		5-Ind, Prof, Disc, Know Skills ISLO ISLO	IA Subsets Subsets Subsets
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KEY	<u>Institutional Student Learning Outcomes [ISLO 1 – 5]</u>
ISLO #	ISLO & Subsets
1	Communication Skills Oral [O], Written [W]
2	Critical Thinking <i>Critical Analysis [CA], Inquiry & Analysis [IA], Problem Solving [PS]</i>
3	Foundational Skills <i>Information Management [IM], Quantitative Lit./Reasoning [QTR]</i>
4	Social Responsibility <i>Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T]</i>
5	Industry, Professional, Discipline Specific Knowledge and Skills

*Include program objectives if applicable. Please consult with Program Coordinator

J. **APPLIED LEARNING COMPONENT:** Yes No

If YES, select one or more of the following categories:

- | | |
|---|--|
| <input type="checkbox"/> Classroom/Lab | <input type="checkbox"/> Civic Engagement |
| <input type="checkbox"/> Internship | <input type="checkbox"/> Creative Works/Senior Project |
| <input type="checkbox"/> Clinical Placement | <input type="checkbox"/> Research |
| <input type="checkbox"/> Practicum | <input type="checkbox"/> Entrepreneurship |
| <input type="checkbox"/> Service Learning | (program, class, project) |
| <input type="checkbox"/> Community Service | |

K. **TEXTS:**

Wager, K.A., Wickham Lee, F., & Glaser, J.P. Health Care Information Systems, 4th Edition, Wiley, 2017.

L. **REFERENCES:**

M. **EQUIPMENT:** None Needed:

N. **GRADING METHOD:**

A -F

O. **SUGGESTED MEASUREMENT CRITERIA/METHODS:**

Assignments, discussions, and quizzes will be used to measure attainment of course objectives.

P. **DETAILED COURSE OUTLINE:**

Part I: Major Environmental Forces that Shape the National Health Information System Landscape

- 1) The National Health Information Technology Landscape
- 2) Health Care Data
- 3) Health Care Information Systems
- 4) Information Systems to Support Population Health Management

Part II: Selection, Implementation, Evaluation, and Management of Health Care Information Systems

- 1) System Acquisition
- 2) System implementation and Support
- 3) Assessing and Achieving Value in Health Care Information Systems
- 4) Organizing Information technology Services

Part III: Laws, Regulations, and Standards that Affect Health Care Information Systems

- 1) Privacy and Security

- 2) Performance Standards and Measures
- 3) Health Care Information Systems Standards

Part IV: Senior-Level Management Issues Related to Health Care Information Systems Management

- 1) IT Alignment and Strategic Planning
- 2) IT Governance and Management
- 3) Health IT Leadership Case Studies

Q. **LABORATORY OUTLINE:** None Yes