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:

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

- Classroom/Lab
- Internship
- Clinical Placement
- Practicum
- Service Learning
- Community Service
- Civic Engagement
- Creative Works/Senior Project
- Research
- Entrepreneurship (program, class, project)

K. **TEXTS:**


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 ☐