

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



## MASTER SYLLABUS

COURSE NUMBER – COURSE NAME

**HSMB 311 – Health Care Information Technology**

**CIP Code: 51.0701**

*For assistance determining CIP Code, please refer to this webpage*

*<https://nces.ed.gov/ipeds/cipcode/browse.aspx?y=55>*

*or reach out to Sarah Todd at [todds@canton.edu](mailto:todds@canton.edu)*

**Created by: Marela Fiacco**

**Updated by: Marela Fiacco**

**School of Business and Liberal Arts**

**Department: Healthcare Management**

**Semester/Year: Fall 2023**

- 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: 15 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 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> [SLO]	<u>Program Student Learning Outcome</u> [PSLO]	<u>GER</u> [If Applicable]	<u>ISLO &amp; SUBSETS</u>

Describe the impact of health information systems and technology on healthcare delivery	Describe the framework in which healthcare services are produced, coordinated, consumed, and reimbursed.		1-Comm Skills ISLO ISLO	W Subsets Subsets Subsets
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
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
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	Subsets Subsets Subsets Subsets
			ISLO ISLO ISLO	Subsets Subsets Subsets Subsets
			ISLO ISLO ISLO	Subsets Subsets Subsets Subsets
			ISLO ISLO ISLO	Subsets Subsets Subsets Subsets
			ISLO ISLO ISLO	Subsets Subsets Subsets Subsets
			ISLO ISLO ISLO	Subsets Subsets Subsets Subsets
			ISLO ISLO ISLO	Subsets Subsets Subsets Subsets

<b>KEY</b>	<b><u>Institutional Student Learning Outcomes [ISLO 1 – 5]</u></b>
<b>ISLO #</b>	<b>ISLO &amp; Subsets</b>
<b>1</b>	<b>Communication Skills</b>

	Oral [O], Written [W]
2	<b>Critical Thinking</b> <i>Critical Analysis [CA], Inquiry &amp; Analysis [IA], Problem Solving [PS]</i>
3	<b>Foundational Skills</b> <i>Information Management [IM], Quantitative Lit./Reasoning [QTR]</i>
4	<b>Social Responsibility</b> <i>Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T]</i>
5	<b>Industry, Professional, Discipline Specific Knowledge and Skills</b>

\*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:

Health Care Information Systems: A Practical Approach for Health Care Management.  
Karen A. Wager, Frances W. Lee, John P. Glaser, 5<sup>th</sup> Ed. Wiley, 2022

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 System**

##### **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