



## Health Information Technology Systems (Undergraduate Certificate and Graduate Certificate)

The Professional Certificate in Health Information Technology Systems prepares health care professionals to support the collection, management, retrieval, exchange, and/or analysis of information in electronic form, in health care and public health organizations. This role functions at an operational level to provide comprehensive management of health care information and its secure exchange between healthcare consumers and providers.

These specialists participate in processing, managing and transforming data from information to knowledge. This specialist works within the health care environment interacting with both health care professionals and IT specialists. The informatics specialty maintains the big picture of health care informatics while providing an in-depth perspective of nursing informatics.

The ANA Scope and Standards of Nursing Informatics as well as other frameworks such as American Medical Informatics Association’s definition of biomedical informatics and their current work in the development of biomedical informatics competencies and the International Medical Informatics Association’s work on informatics competencies.

The following areas of knowledge will be taught in the certificate program: Foundations/Introduction to Healthcare Informatics; Database Management Systems; Information Systems Security and Privacy; Information Systems Life Cycle; Semantic Representation.

### Health Information Technology Systems (Undergraduate Certificate)

<u>Late Summer</u>	<u>Hours</u>	<u>Fall Semester</u>	<u>Hours</u>
HSCI 401 Health Informatics I: Data Analysis	2	NURS 402 Health Information Systems	3
	2	CISB 410 Project Management	3
			6
<u>J-Term &amp; Late Spring</u>	<u>Hours</u>	<u>Spring Semester</u>	<u>Hours</u>
HSCI 406 Health Informatics II: Project Design & Implementation	2	NURS 405 Quality Assessment & Improvement in Health Care Settings	3
	2	CISB 470 Management of Information Systems	3
			6

### Health Information Technology Systems (Graduate Certificate)

<u>Late Summer</u>	<u>Hours</u>	<u>Fall Semester</u>	<u>Hours</u>
HSCI 501 Health Informatics I: Data Analysis	1	NURS 502 Health Information Systems	3
	1	CISB 505 Advanced Project Management	3
			6
<u>J-Term &amp; Late Spring</u>	<u>Hours</u>	<u>Spring Semester</u>	<u>Hours</u>
HSCI 502 Health Informatics II: Project Design & Implementation	2	NURS 505 Quality Assessment & Improvement in Health Care Settings	3
	2	CISB 500 Management of Information Systems	3
			6