PROPOSED
RARITAN VALLEY COMMUNITY COLLEGE
ACADEMIC COURSE OUTLINE

HITC 200 Health Information Systems and Technologies

I. Basic Course Information

A. Course Number and Title:	HITC 200 Health Information Systems and Technologies
B. New or Modified Course:	Modified
C. Date of Proposal:	Semester: Spring Year:2020
D. Effective Term:	**Fall 2020**
E. Sponsoring Department:	Health Science Education
F. Semester Credit Hours:	3
G. Weekly Contact Hours:	Lecture: 2 Laboratory: 2 Out of class student work per week: 5
H. Prerequisites/Corequisites:	COMP 102 Computer Literacy HITC 111 Professional Practicum I
I. Laboratory Fees:	None
J. Name and Telephone Number or E-Mail Address of Department Chair and Divisional Dean at time of approval:	Beryl Stetson, Beryl.Stetson@raritanval.edu
Divisional Dean:	Sarah Imbriglio, Sarah.Imbriglio@raritanval.edu

II. Catalog Description

Pre-requisites: **COMP 102 Computer Literacy**
HITC 111 Professional Practicum I

This course covers basic computer system architecture, file structure, and design for health care settings. Topics include system analysis, design, security, and selection for a variety of hardware environments. This course provides students with a review of computer fundamentals and the fundamentals of the electronic health record and an introduction to the information systems life cycle with software application.

Security and confidentiality issues, concerns and implications in relation to the electronic health record will be addressed.

III. Statement of Course Need

A. This course fulfills the "knowledge cluster content and competency" required by the American Health Information Management Association (AHIMA) and its accrediting body, the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM).

B. Students will use the AHIMA Virtual Lab (Vlab). In the AHIMA Vlab, students will gain hands-on experience with a commercial EHR system, which will familiarize them with Electronic Health Record (EHR) software that is likely to be encountered in the workplace.

C. This course generally transfers as a program requirement in health information technology.

IV. Place of Course in College Curriculum

A. Free Elective
B. This course does not serve as a General Education course.
C. This course meets a program requirement for the Health Information Technology A.A.S. degree program.
D. To see course transferability: a) for New Jersey schools, go to the NJ Transfer website, www.njtransfer.org; b) for all other colleges and universities, go to the individual websites.

V. Outline of Course Content

A. Introduction to Computers
B. Common Software Applications
C. Data Quality
D. Databases
E. System and Implementation
F. Data Storage and Retrieval
G. Computers in HIM
H. Administrative Information Systems
I. Clinical Information Systems
J. Electronic Health Record
K. Speech Recognition
L. Privacy and Security
M. Role of HIM Professionals in Information Systems
N. The Future of Computers in Healthcare

VI. General Education and Course Learning Outcomes

A. <u>General Education Learning Outcomes:</u>

At the completion of the course, students will be able to:

1. Utilize technologies for health information management. (GE-4)
2. Identify policies and strategies to achieve data integrity. (GE-1,4)
3. Apply privacy strategies to health information. (GE-1,4)

B. Course Learning Outcomes:

At the completion of the course, students will be able to:

1. Identify hardware and software components of information systems for health information.
2. Describe the various types of information systems and give examples of how these support administrative, financial, clinical, and research needs of a healthcare enterprise.
3. Discuss the various types of information systems life cycles.
4. Identify the components of business and information systems strategic planning.
5. Describe the Request for Proposal document and process.
6. Explain consumer informatics.
7. Differentiate between the patient portal and a personal health record (PHR).
8. Compare and contrast information governance (IG) with data governance (DG) and their relative significance.

C. Assessment Instruments

1. AHIMA Virtual Lab
2. discussions
3. assignments
4. quizzes
5. exams

VII. Grade Determinants

A. discussions
B. assignments
C. quizzes
D. final

Given the goals and outcomes described above, LIST the primary formats, modes, and methods for teaching and learning that may be used in the course:

A. lecture/discussion
B. small-group work
C. computer-assisted instruction
D. guest speakers
E. laboratory
F. student collaboration
G. independent study

VIII. Texts and Materials

A. Textbooks:
Introduction to Information Systems for Health Information Technology, Sayles & Burke, AHIMA, current edition.
Case Studies in Health Information Management, Schnering, Cengage, New York; current edition.

B. Subscription to AHIMA Virtual Lab:e-HIMS VIRTUAL LAB - FULL YEAR, Edition: N/A, AHIMA (enrollment code for Virtual Lab)

(Please Note: The course outline is intended only as a guide to course content and resources. Do not purchase textbooks based on this outline. The RVCC Bookstore is the sole resource for the most up-to-date information about textbooks.)

IX. Resources

A Computer with internet access
B. AHIMA Website