

**RARITAN VALLEY COMMUNITY COLLEGE  
ACADEMIC COURSE OUTLINE**

**HITC 210 Health Data Reporting and Analysis**

**I. Basic Course Information**

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|---|--|
| A. Course Number and Title:   | HITC 210<br>Health Data Reporting and Analysis   |
| B. New or Modified Course:  | Modified   |
| C. Date of Proposal:  | Semester: Spring      Year: 2020   |
| <b>D. Effective Term:</b>   | <b>Fall 2020</b>   |
| E. Sponsoring Department:   | Health Science Education   |
| F. Semester Credit Hours:   | 3  |
| G. Weekly Contact Hours:  | Lecture: 3<br>Laboratory: 0<br>Out of class student work per week: 6                                   |
| H. Prerequisites:   | MATH-110 Statistics I<br>HITC-111 Professional Practicum I   |
| Co-requisite:   | HITC-220 Organizational Resource<br>Management   |
| 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, <a href="mailto:Beryl.Stetson@raritanval.edu">Beryl.Stetson@raritanval.edu</a>          |
| Divisional Dean:  | Sarah Imbriglio,<br><a href="mailto:Sarah.Imbriglio@raritanval.edu">Sarah.Imbriglio@raritanval.edu</a> |

**II. Catalog Description**

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|------------------------|--|
| <b>Pre-requisites:</b> | <b>MATH-110 Statistics I<br/>HITC-111 Professional Practicum I</b> |
| <b>Co-requisite:</b>   | <b>HITC-220 Organizational Resource<br/>Management</b>             |

This course covers maintenance, compilation, analysis, and presentation of health care statistics. Discussion is focused on the use, collection, presentation, and verification of health care data including fundamental concepts of descriptive statistics; data validity and reliability; data

presentation techniques; and vital statistics. Students will be introduced to topics such as basic statistical principles, morbidity and mortality, commonly computed hospital rates, uniform reporting requirements, and selection and construction of data displays. This course also introduces principles of quality improvement, utilization management, and risk management in health care. Topics include the continuous quality improvement philosophy, including tools, data analysis/application, and related committee functions; utilization management and risk management; and credentialing, accreditation and regulation.

### **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. This course has no lab component.
- 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](http://www.njtransfer.org); b) for all other colleges and universities, go to the individual websites.

### **V. Outline of Course Content**

- A. Introduction to Health Statistics
- B. Mathematics Review
- C. Patient Census
- D. Inpatient Bed Occupancy
- E. Length of Stay
- F. Mortality Rates
- G. Hospital Autopsies and Autopsy Rates
- H. Morbidity and Other Miscellaneous Rates
- I. Statistics Computed within the HIM Department
- J. Descriptive Statistics in Healthcare
- K. Presentation of Data
- L. Basic Research Principles
- M. Inferential Statistics in Healthcare
- N. An Introduction to Data Analytics

- O. Defining a PI Model
- P. Identifying Improvement Opportunities
- Q. Using Teamwork in PI
- R. Aggregating and Analyzing PI Data
- S. Communicating PI Activities and Recommendations
- T. Measuring Customer Satisfaction
- U. Refining the Continuum of Care
- V. Improving the Provision of Care, Treatment, and Services
- W. Preventing and Controlling Infectious Disease
- X. Decreasing Risk Exposure
- Y. Building a Safe Medication Management System
- Z. Managing the Environment of Care
- AA. Navigating the Accreditation, Certification, or Licensure Process
- BB. Managing the Human Side of Change

## **VI. General Education and Course Learning Outcomes**

### **A. General Education Learning Outcomes:**

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

1. Utilize data-driven performance improvement techniques for decision making (GE-1,2)
2. Utilize financial management processes (GE-2)
3. Calculate statistics for health care operations (GE-2)
4. Report health care data through graphical representations (GE-2)

### **B. Course Learning Outcomes:**

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

1. Describe research methodologies used in health care.
2. Describe the concepts of managing data.
3. Manage data within a database system.
4. Analyze clinical data to identify trends that demonstrate quality, safety, and effectiveness of healthcare.

### **C. Assessment Instruments**

1. discussions
2. assignments
3. quizzes
4. exams
5. projects

## **VII. Grade Determinants**

- A. discussions
- B. assignments
- C. quizzes
- D. exams
- E. projects

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. computer-assisted instruction
- C. reading/summarizing outside articles
- D. independent study

## **VIII. Texts and Materials**

- A. Textbooks:
  - Calculating & Reporting Healthcare Statistics, current edition, American Health Information Management Association (AHIMA)
  - Quality and Performance Improvement in Healthcare, A Tool for Programmed Learning, current edition, AHIMA
  - Case Studies in Health Information Management, current edition, Schnering, Cengage Learning

(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