COMMON COURSE OUTLINE: Course discipline/number/title: HIMC 2810: Quality Analysis and Health Statistics

A. CATALOG DESCRIPTION
1. Credits: 3
2. Hours/Week: 5 (1 lecture/2lab)
3. Prerequisites (Course discipline/number): BTEC 1001, on-line tutorial, or the instructor’s permission is required when the course is offered online. HIMC 1840, and HIMC 1850. College-level reading skills: Appropriate score on RCTC placement test or completion of appropriate developmental course with grade of C or better.
4. Co-requisites (Course discipline/number): None
5. MnTC Goals (if any): NA

This course covers the components of continuous improvement using practical tools for problem-solving, decision making, time management, and implementation of quality concepts. This course is also a study of collecting, analyzing, interpreting, and presenting numerical data relating to health care services.

B. DATE LAST REVISED (Month, year): January, 2011

C. OUTLINE OF MAJOR CONTENT AREAS:
1. Practical tools for problem-solving, decision-making, time management, and implementation of quality concepts
2. Study of collecting, analyzing, interpreting, and presenting numerical data relating to health care services

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
1. Identify and exhibit professional work habits.
2. Define and apply health record confidentiality.
3. Apply basic mathematical principles.
4. Define statistical terms.
5. Determine how to choose a random sample.
6. Identify types of variables.
7. Identify and compute mean, median and mode.
8. Compute standard deviation.
9. Interpret data.
10. Apply statistics to health care issues.
11. Abstract appropriate research data.
12. Define continuous improvement.
13. Discuss group dynamics.
15. Assess customer needs and satisfaction.
17. Apply problem-solving graphical techniques.
18. Define process improvement.
19. Identify continuous improvement tools.
20. Apply decision-making techniques.
21. Describe continuous improvement committee membership.
22. Apply team building concepts.
23. Write continuous improvement criteria.
25. Retrieve information for patient care evaluation.
26. Describe auditing of health data collections and processing activities.
27. Review case mix concept.
28. Discuss managed care.
29. Abstract and maintain data for clinical indices/data.
30. Collect, organize, and present data for quality management, utilization management, risk management, and other related studies.
32. Apply Institutional Review Board (IRB) process and policies.
33. Use specialized databases to meet specific organization needs such as medical research and disease registries.
D. **LEARNING OUTCOMES (GENERAL):** The student will be able to: *Continued...*
   34. Abstract and report data for facility-wide quality management and performance improvement programs.
   35. Analyze clinical data to identify trends that demonstrate quality, safety, and effectiveness of healthcare.
   37. Compare healthcare statistics.
   38. Draw conclusions from descriptive statistics (means, frequencies, ranges, percentiles, standard deviations).
   39. Combine knowledge-based research techniques (library, Medline, web-based) for data selection, interpretation, and presentations.
   40. Use statistical applications with healthcare data.

E. **LEARNING OUTCOMES (MNTC):** NA

F. **METHODS FOR EVALUATION OF STUDENT LEARNING:**
   1. On-line discussions
   2. Textbook assignments
   3. Papers
   4. Tests

G. **RCTC CORE OUTCOME(S) Addressed:**
   ☒ Communication ☒ Civic Responsibility
   ☒ Critical Thinking ☒ Personal/Professional Accountability
   ☐ Global Awareness/Diversity ☐ Aesthetic Response

H. **SPECIAL INFORMATION (if any):** None