



MASTER COURSE OUTLINE

Prepared By: Andrea Elliott

Date: August 2015

COURSE TITLE

Medical Equipment Research

GENERAL COURSE INFORMATION

Dept.: SIM

Course Num: 120

(Formerly:)

CIP Code: 15.0401

Intent Code: 21

Program Code: 654

Credits: 2

Total Contact Hrs Per Qtr.: 22

Lecture Hrs: 22

Lab Hrs:

Other Hrs:

Distribution Designation:)

COURSE DESCRIPTION (as it will appear in the catalog)

This course will help students develop an understanding of human body systems in relation to equipment utilized in the healthcare profession in order to apply it to the medical simulation environment. Specifically, by researching common healthcare content areas such as general head-to-toe assessment equipment, IV therapy and medication administration equipment, and emergency resuscitation equipment, students will be able to exhibit critical thinking and problem solving skills to locate, analyze and apply medical equipment information. *Student must pass this course with a minimum 2.0 grade in order to be applied to degree completion.*

PREREQUISITES

None

TEXTBOOK GUIDELINES

As required by the BBCC Simulation Technology program

COURSE LEARNING OUTCOMES

Upon successful completion of the course, students should be able to demonstrate the following knowledge or skills.

1. Explain the timeline of healthcare simulation history and how it applies to current simulation standards.
2. Compare new and existing medical equipment for use in simulated environments in order to feel competent in recommending modifications for case-based scenarios in order to provide higher fidelity training experiences.
3. Describe an understanding of usage of operating and service manuals in order to correctly and safely assemble, disassemble, troubleshoot, and repair simulation equipment.
4. Define health and safety regulations as mandated by the Occupational Health and Safety Administration in order to demonstrate an understanding of appropriate personal protective equipment (PPE) for the situation, emergency equipment, storage of chemicals, and maintenance of equipment.
5. Demonstrate knowledge of common healthcare procedures and principles as it applies to medical equipment usage within the simulated environment.
6. Compare and contrast common equipment and inventory management techniques.
7. Communicate effectively through writing, speaking, listening, and reading.

INSTITUTIONAL OUTCOMES

COURSE CONTENT OUTLINE

This course will focus on researching and memorizing the following equipment content areas:

1. Descriptive Terminology for SSH Certification
2. Types and Purposes of Different Simulators and Task-Trainers
3. General Exam Room Equipment (exam tables, stretchers, Epic databases)
4. Universal Precautions Equipment
5. General SOAP Charts, Lab Tests, and Standard Operating Procedures
6. Head-to-Toe General Assessment Equipment
7. Heart Monitoring Systems
8. IV Therapy and Medication Administration Equipment
9. Emergency Resuscitation Equipment
10. Respiration Equipment
11. Gastrointestinal Equipment

DEPARTMENTAL GUIDELINES *(optional)*

Students are required to earn a 2.0 in all required classes in order to obtain a degree as a Simulation Technician.

DIVISION CHAIR APPROVAL

DATE