



## MASTER COURSE OUTLINE

Prepared By: Dana Borschowa

Date: December 2018

## COURSE TITLE

Basic Simulation Operations

## GENERAL COURSE INFORMATION

Dept.: SIM

Course Num: 245

(Formerly:)

CIP Code: 15.0401

Intent Code: 21

Program Code: 654

Credits: 2

Total Contact Hrs Per Qtr.: 44

Lecture Hrs:

Lab Hrs: 44

Other Hrs:

Distribution Designation:)

## COURSE DESCRIPTION (as it will appear in the catalog)

By engaging in hands-on training, students will learn to prepare, rehearse, and implement simulated training scenarios. This course also addresses preventative maintenance and basic maintenance for high fidelity and low fidelity patient simulators and task trainers. Student must pass this course with a minimum 2.0 grade in order to be applied to degree completion.

## PREREQUISITES

Co-requisites: SIM 110 and SIM 140

## 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. Operate simulation equipment, task trainers, computerized simulators, and virtual reality procedural trainers with a focus on electrocardiograms, CPR/Defibrillation, first responder wound/burn care, PPE, and patient transfer.
2. Demonstrate familiarity with resuscitation techniques as applied to high and low fidelity simulators
3. Work collaboratively with a team of students, faculty, and community partners in order to provide BLS training opportunities
4. Identify appropriate adjustments and upgrades based on participant actions within a given scenario
5. Articulate knowledge of operation philosophies such as "on the fly", pre-programmed, and automated
6. Assemble and disassemble various simulators
7. Test the utility of the Simulation equipment through system diagnostics.
8. Fill, troubleshoot, drain, and clean simulation equipment with a variety of different fluids.
9. Utilize proper cleaning techniques and materials when maintaining Simulation Equipment.

## INSTITUTIONAL OUTCOMES

IO3 **Human Relations/Workplace Skills:** Demonstrate effective decision-making, critical thinking, and interpersonal skills that match the level of responsibility needed in order to function as a member of a team of professionals.

### **COURSE CONTENT OUTLINE**

1. Practice proper assembly and disassembly techniques
2. Manually connect Simulation Equipment to corresponding servers and IP addresses
3. Run utility testing: Compressor fill test, IV flow meter, Eyes, Head Speaker Test, Pulses, Status, and Valves
4. Utilize proper cleaning techniques and materials when maintaining Simulation Equipment
5. Maintain and troubleshoot SimMan 3G Batteries: storage, charging, removing, overheating, and draining

Students will be required to implement simulated scenarios utilizing the following procedures:

1. Electrocardiogram
2. CPR/Defibrillation
3. First Responder Wound/Burn Care
4. Personal Protective Equipment Standards

### **DEPARTMENTAL GUIDELINES** *(optional)*

Student must pass this course with a minimum 2.0 in order to be applied to degree completion.

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**DIVISION CHAIR APPROVAL**

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**DATE**