

Course Objectives/Course Outline
Spokane Community College

Course Title: Disaster Management

Prefix and Course Number: RT 416

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Describe mass causality and pandemic situations
- Describe the various federal, state and regional agencies involved in preparedness, protection and prevention
- Describe how to establish a pre-hospitalization triage system
- Describe how to manage various chemical and biological agents and CDC
- Categories of threat, such as:
 - Category A – Anthrax, Botulism, Plague, Smallpox, Ebola
 - Category B – Brucellosis, Clostridium perfringens, Salmonella, E. Coli, Ricin Toxin
 - Category C – Emerging Biological “Weapons”
- Participate in Case-based studies of Ebola, anthrax, SARS, influenza, bird flu, tuberculosis, emergency room violence/unrest, evacuation and loss of services caused by natural disasters
- Demonstrate infection control principles in the setting of highly contagious special pathogens
- Participate in a group project to prepare for a local Disaster

Course Outline:

- I. Introduction and history of disaster management
- II. Discuss the federal, state, and regional agencies involved in preparedness, protection, and prevention of natural and man-made disasters:
 - A.AARC: American Association for Respiratory Care
 - B.CDC: Centers for Disease Control & Prevention
 - C.FEMA: Federal Emergency Management Agency
 - D.AHCA: Agency for Health Care Administration
 - E. Washington National Guard Homeland Response Force
 - F. Washington State Department of Health
 - G. Respiratory Care Society of Washington
- III. Pre-hospital triage and mechanical ventilator triage
 - A. Ethics of triage (AARC.org)
 - B. Strategic National Stockpile of mechanical ventilators (AARC.org)
 - C. Disaster ventilators and their capabilities (AARC.org)
 - 1.SNS: the LP10 (Covidien)
 - 2.LTV1200 (CareFusion)
 - 3.Uni-vent Eagle 754 (Impact Instrumentation)
- IV. Describe the management of patients exposed to various chemical and biological agents identified by the CDC Categories of threat:
 - A. Category A – Anthrax, Botulism, Plague, Smallpox, Ebola

- B. Category B – Brucellosis, Clostridium perfringens, Salmonella, E. Coli, Ricin Toxin
- C. Category C – Emerging Biological “Weapons”
- V. Infection control principles
 - A. Personal protective equipment (PPE)
 - B. Availability of PPE in the Spokane region
 - C. Donning and doffing PPE
 - D. Cleaning of spills and bodily fluids, disposal of infectious medical waste
- VI. Disinfection and decontamination of durable medical equipment (ventilators)
- VII. Case studies of highly infectious diseases and mass casualty disasters
- VIII. Group project – local disaster preparedness plan
- IX. Tour Sacred Heart Medical Center Special Pathogens Unit