

**STATE UNIVERSITY OF NEW YORK
COLLEGE OF TECHNOLOGY
CANTON, NEW YORK**

COURSE OUTLINE

HLTH 303 - OCCUPATIONAL HEALTH AND SAFETY

PREPARED BY : Timothy Farrell

**SCHOOL OF SCIENCE, HEALTH & CRIMINAL JUSTICE
April 2015**

HLTH 303 - OCCUPATIONAL HEALTH AND SAFETY

- A. **TITLE:** Occupational Health and Safety
- B. **COURSE NUMBER:** HLTH 303
- C. **CREDIT HOURS:** 3
- D. **WRITING INTENSIVE COURSE:** No
- E. **COURSE LENGTH:** 15 weeks
- F. **SEMESTER(S) OFFERED:** Spring
- G. **HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY:**
Three lecture hours per week.
- H. **CATALOGUE DESCRIPTION:**
This course explores health and safety issues related to the workplace. Environmental controls that reduce transmission of communicable diseases, exposure to toxic substances, hazardous working conditions, and accidents are included. Public policy decisions and health control program compliance issues are addressed. The effects of human-environmental interactions on physical, mental, and social well-being are explored.
- I. **PRE-REQUISITES/CO-COURSES:** Junior status or permission of instructor.
- J. **STUDENT LEARNING OUTCOMES**
Upon completion of this course, the student will be able to:

<i>Course Objective</i>	<i>Institutional SLO</i>
Identify and discuss the history of occupational health and safety, management and workforce responsibility for health and safety. How Measured: Quiz 1	2-Crit. Thinking 3-Prof. Competence
Identify and discuss the importance of a safety program. How Measured: Quiz 2, 3, 4, 5, and 6.	2-Crit. Thinking 3-Prof. Competence
Discuss and defend the importance of federal, state, and local health control programs and the impact. How Measured: Quiz 7,8, and 9.	2-Crit. Thinking 3-Prof. Competence
Identify measures that can be used to minimize the effects of hazardous materials and prevent the occurrence of accidents in the workplace. How Measured: Quiz 10 and 11.	2-Crit. Thinking 3-Prof. Competence

K. **TEXTS:**

Reese, Charles D. *Occupational Health and Safety Management: A Practical Approach*, CRC.
Second Edition.

L. REFERENCES:

- Fraser, T.M., *Toxic Chemicals in the Workplace*, Gulf Publishing "Co., 1996.
Goodnec, Brenda, *The OSHA Handbook: Guidelines for OSHA Compliance in Health Care Facilities*, 2nd Edition, Mosby
Harrington, J.M. and Gardiner, K., Editors, *Occupational Hygiene*, Blackwell Science, Inc., 1995.
Sellers, Christopher C., *Hazards of the Job: From Industrial Disease to Environmental Health Science*, University of North Carolina Press, 1997.
Tweedy *Healthcare Hazardous Control and Safety Management*, Aspen Publishers, Inc.

M. EQUIPMENT: None

N. GRADING METHOD: A-F

O. MEASUREMENT CRITERIA/METHODS:

- Class participation
Written and Oral Reports (3)
Quizzes
Final Exam

P. DETAILED TOPICAL OUTLINE:

1. Safety Management
 - a) Occupational Safety and Health Administration (OSHA) guidelines for safety programs.
 - b) Duties of designated safety officer.
 - c) Formal safety committee
 1. structure
 2. functions
 - d) Role of health care reform and managed care in safety management.
2. Life Safety Management
 - a) National Fire Protection Association's Life Safety Code.
 - b) Measuring effectiveness in reducing fire risk.
 - c) Managing compliance of fire safety codes.
3. Risk Management
 - a) Identifying, assessing and qualifying risks.
 - b) Investigation of adverse patient care incidents.
 - c) Lawsuits and liability exposure.
 - 1) Minimizing risk exposure.
4. Plant Engineering
 - a) Role of the plant engineer.
 - b) Duties of the plant engineer.
 - c) Compliance with appropriate codes and standards.
 1. Buildings
 2. Utility System
 - d) External Regulating Agencies
 1. JCAHO
 2. OSHA
 3. NEPA

4. Environmental Protection Agency
 5. American Institute of Architects
5. Emergency Preparedness
 - a) Types of Disasters
 - b) Hospital/Agency Disaster Plan Components
6. Infection Control
 - a) Role of Infection Control Precautions.
 - b) Universal Precautions.
 - c) OSHA guidelines related to infection control.
 - d) Nosocomial infections
 - e) Review of common disease processes encountered in health care agencies.
 - f) Professional discipline related to infection control.
7. Hazardous Materials and Wastes
 - a) Harmful chemicals.
 - b) Hazardous materials.
 - c) Infectious materials.
 - d) Biohazardous wastes.
 - e) "Haz Mat" industry.
 - f) Regulatory agencies involved in control of hazardous wastes and materials.
 1. EPA
 2. Nuclear Regulatory Commission
 3. Department of Transportation
 4. OSHA
 5. JCAHO
 6. State Health Departments
8. Biomedical Engineering (Medical Equipment Management)
 - a) FDA's Safe Medical Devices Act of 1990.
 - b) Role of clinical engineer.
 - c) Managing technology in health care agencies.
9. Security Management
 - a) JCAHO security requirements
 - b) Work place violence regulation (OSHA guidelines)
 1. Child abductions
 2. Thefts
 3. Drugs
 4. Violent behavior
 - c) Social changes affecting the security of health care agencies