

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

COURSE OUTLINE

HLTH 105 Pathology

**SCHOOL OF SCIENCE, HEALTH & CRIMINAL JUSTICE
Funeral Services Administration Program
May 2015**

HLTH 105 Pathology

- A. **TITLE:** Pathology
- B. **COURSE NUMBER:** HLTH 105
- C. **CREDIT HOURS:** 3
- D. **WRITING INTENSIVE COURSE:** No
- E. **COURSE LENGTH:** 15 weeks
- F. **SEMESTER(S) OFFERED:** Fall or Spring
- G. **HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY:**
Three hours lecture per week
- H. **CATALOG DESCRIPTION:**
This course considers the natural response of the human body to disease, the process and progress of disease, and the implications for the community health. Particular emphasis is placed on causes of deaths of interest to the embalmer.
- I. **PRE-REQUISITES/CO-COURSES:**
- J. **GOALS (STUDENT LEARNING OUTCOMES):**
By the end of this course, the student will:

Course SLO	Institution SLO
1. Recognize the pathological conditions related to serious, high mortality diseases	3. professional competence
2. Recognize prior to and during the procedure of embalming the problems presented by disease processes and etiological factors.	2. Critical Thkg, 3. professional competence
3. Define terminology which enables proper technical communication with members of the medical profession	1. communication, 3. professional competence
4. Discuss natural factors of immunity which protect the normal and immunocompromised person	1. communication, 3. professional competence
5. Describe public health practices limiting disease transmission in the US	3. professional competence

- K. **TEXTS:** To be selected prior to each semester, the text will be a combination of Microbiology and Pathology topics at the level of Allied Health Professional training.
- L. **REFERENCES:**
Alcamo, I.E. *Fundamentals of Microbiology* fifth ed, Benjamin/Cummings, New York, 2007
- M. **EQUIPMENT:** no special equipment required
- N. **GRADING METHOD:** A - F
- O. **MEASUREMENT CRITERIA/METHODS:**
1. Quizzes
2. Hour Exams
3. Final exam

P. DETAILED TOPICAL OUTLINE:

- I. Divisions of Pathology
 - A. clinical
 - B. surgical
 - C. gross
- II. Nature of Disease
 - A. organ dysfunction
 - B. tissue dysfunction
 - C. cellular dysfunction
 - D. chemical/genetic factors
- III. Causes of disease
 - A. congenital
 - B. metabolic
 - C. environmental/nutritional
 - D. autoimmune
 - E. infectious disease (including viral)
 - F. allergy/anergy
- IV. Defenses against Disease
 - A. nonspecific
 - 1. physical
 - 2. chemical
 - 3. mechanical
 - 4. cell mediated
 - B. specific
 - 1. antibody
 - 2. T- lymphocytes
- V. Cellular Reaction to Injury
 - A. cytotoxic factors
 - B. chemotaxis
 - C. interferon
- VI. Inflammation and Repair
 - A. 5 cardinal signs
 - B. fibrin
 - C. regeneration
 - D. replacement
 - E. cicatrix
 - F. inflammatory lesions
 - 1. abscess
 - 2. carbuncle
 - 3. purulence
 - 4. ulceration
- VII. Disturbances of Circulation
 - A. edema
 - B. lymphatic disease
 - C. thrombosis/embolism
 - D. varices
 - E. phlebitis
 - F. petechiae
 - G. arteriosclerosis
 - H. anemia
 - I. hyperemia
- VIII. Heart disease
 - A. trauma
 - B. AMI
 - C. congenital

- D. congestive heart disease
- E. hypertrophy
- F. valve disease
- G. streptococcal infection
- H. EMD

- IX. Respiratory System diseases
 - A. pneumonias
 - B. tuberculosis
 - C. influenza
 - D. coryza
 - E. acute bronchitis
 - F. congestive obstructive pulmonary diseases
- X. Digestive System diseases
 - A. liver cirrhosis
 - B. hepatitis
 - C. jaundice
 - D. GERD
 - E. giardiasis
 - F. cholelithiasis
 - G. esophageal varices
 - H. appendicitis
 - I. colitis
 - J. food poisoning
 - K. typhoid fever
- XI. Genito-urinary System diseases
 - A. Kidney failure
 - B. cystitis
 - C. ectopic pregnancy
 - D. toxemia
 - E. hydrocele
 - F. cryptorchidism
 - G. Sexually transmitted diseases: NGU, gonorrhoea, syphilis, herpes, HPV
- XII. Endocrine Disease
 - A. Cushing's syndrome
 - B. Addison's disease
- XIII. Selected infectious diseases
 - A. rickettsial: typhus, RMSF, Q fever
 - B. chlamydial: trachoma, psittacosis
 - C. cholera, D. amoeboid dysentery
 - E. *Bacillus and Clostridium* diseases
 - F. Lyme disease
 - G. anthrax
 - H. varicella zoster
- XIV. Tumors and Cysts
 - A. malignancies of each organ system
 - B. benign neoplastic growth