

Crafton Hills College Course Outline

1. **Discipline:** Emergency Medical Services
2. **Department:** Emergency Services
3. **Course Title:** Preventing Disease Transmission for Emergency Response Employees
4. **Course I. D.:** EMS 901X20
5. **Prerequisite(s):** None
Corequisite(s): None
Departmental Recommendation(s): Participants should be emergency service personnel or employed in a related healthcare profession.
6. **Semester Units:** 0.5
7. **Minimum Semester Hours:**
Lecture: 8 **Lab:** 0 **Clinic:** 0 **Field:** 0
8. **Need for the Course:**

This course is required training for all emergency services personnel. This course fulfills the OSHA blood-borne pathogens training requirements for EMS and public safety workers. Annual certification may be required by provider agencies. This course is not degree applicable.
9. **Goals for the Course:**
 - A. To provide emergency services personnel the training necessary to protect themselves against blood-borne pathogens.
 - B. To fulfill the mission of the college by offering training and retraining which provides qualified work force to business, industry, and government.
10. **Catalog Description:**

Instruction in disease transmission, infection control practices, including occupational exposure management and legal concerns. Designed for emergency medical services, hospital and public safety personnel. Offered for Credit or No Credit only. This course may be taken twenty times.
11. **Schedule Description:**

Disease transmission, infection control practices, including occupational exposure management and legal concerns. Designed for emergency medical services, hospital and public safety personnel.
12. **Entrance Skills:**
 - A. **Requisite Skills:** None

EMS 901X20

Page 1 of 3

Last Updated: 02/25/05

Board Approved: 04/14/05

Semester Effective: Fall 2005

B. Recommended Skills:

It is highly recommended that students entering this course be emergency services personnel or employed in a related healthcare profession.

13. Course Objectives:

Upon satisfactory completion of the course, students will be able to:

- A. Describe the immune system
- B. Define chain of transmission
- C. Explain the difference between exposure and infections
- D. Define Human Immunodeficiency Virus (HIV)
- E. Define HIV infection and HIV disease
- F. Describe the chain of transmission for HIV
- G. Identify behaviors that place a person at risk for exposure to HIV
- H. Define Hepatitis B Virus (HBV) and Hepatitis C Virus (HCV)
- I. Identify how HBV and HCV are transmitted
- J. Define tuberculosis (TB) infection and disease, and explain how multi-drug resistant TB can develop
- K. Identify how TB is transmitted
- L. Identify testing and treatment procedures for TB
- M. Describe steps that can be taken to maintain or enhance personal health
- N. Identify body substance isolation precautions
- O. Describe steps that can be taken before going on duty to reduce risk of exposure to blood-borne diseases
- P. Identify practices and equipment for use in reducing risk of exposure to blood-borne diseases
- Q. Describe steps that can be taken while on duty to reduce risk of exposure to TB
- R. Describe tasks that may involve risk of exposure to blood-borne diseases or TB and the practices and use of equipment to reduce that risk
- S. Describe procedures for cleaning, disinfecting and/or disposing of articles contaminated with fluids or substances capable of transmitting blood-borne disease
- T. Describe steps to take following exposure to fluids or substances capable of transmitting blood-borne disease
- U. Describe three steps to take following exposure to TB
- V. Describe the protections persons with AIDS or HIV infection receive under the Americans with Disabilities Act
- W. Describe the exposure notification process created by the Ryan White Act

14. Representative Texts and Instructional Materials:

Nixon, R. (2000). *Communicable Disease and Infection Control for EMS*. Upper Saddle River, NJ: Brady/Prentice Hall.

15. Course Content:

- A. The immune system and immune response
- B. HIV and the immune response
- C. Chain of transmission
- D. Modes of transmission
- E. Communicable diseases including the following:
 - 1. HIV

- 2. Hepatitis B and Hepatitis C
- 3. childhood diseases including measles, mumps, and chicken pox
- 4. meningitis
- 5. tuberculosis
- 6. other sexually transmitted diseases
- F. Personal health
- G. Body substance isolation
- H. Prevention of occupational exposure
- I. OSHA blood-borne pathogens regulations
- J. Blood borne pathogens training
- K. Personal protective equipment (PPE)
- L. Potential occupational risk activities
- M. Clean-up and disposal
- N. Post exposure management
- O. Occupation safety regulations
- P. Reportable diseases and conditions
- Q. Anti-discrimination law
- R. Confidentiality and disclosure limitations
- S. Duty to respond and provide care

16. Methods of Instruction:

- A. Lecture
- B. Video
- C. Class activities
- D. Discussion

17. Assignments and Methods of Evaluation:

This course is offered credit/no credit only. In order to receive credit, students must pass the written final examination 80 percent or higher.

18. Distributed Education Methods of Instruction: None