

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: DNA 109

Credits: 3

Course Title: Practical Infection Control

Course Description (including lecture hours, lab hours, total contacts)

Studies the principles of management of disease producing microorganisms and associated diseases. Emphasis is placed on sterilization, asepsis, and disinfection techniques applicable in the dental office. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

General Course Purpose

DNA 109 emphasizes to the student the importance of safety concerning infection control, bloodborne pathogens, disease transmission, and chemical hazards.

Course Prerequisites/Corequisites

Prerequisite: Completion of Pre-Dental Assisting Career Studies Certificate
Prerequisites or Corequisites: DNA 100, DNA108

Course Objectives

Upon completing the course, the student will be able to:

- a. Describe the dental assistant's role in prevention of disease transmission
- b. Explain the routes of disease transmission
- c. Discuss the body's immune system
- d. Demonstrate the steps toward effective handwashing
- e. Describe the importance of handwashing
- f. Explain the differences of the three federal agencies that enforce hazard guidelines
- g. Discuss material safety data sheets
- h. List the guidelines for minimizing hazards
- i. Identify some of the hazards in the dental office
- j. Explain the bloodborne pathogens standard
- k. Describe the differences between nonhazardous and hazardous waste
- l. Describe the mode of action, advantages, and disadvantages of the methods of sterilization
- m. Compare sterilization and disinfection in reference to what can and can't be sterilized
- n. Describe the various disinfectants and if they can be used for cold sterilization
- o. Demonstrate the preparation of the operatory for a patient
- p. Demonstrate how to clean and disinfect a treatment room
- q. Demonstrate recirculation of instruments

Major Topics to be Included

- a. Patient Data Gathering
- b. Microbiology and Disease Transmission
- c. Infection Control in Dentistry
- d. Disinfection and Sterilization

Effective Date of Course Content Summary (Month, Date Year): February 12, 2009