

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

**Course Prefix and Number:** DNA 109

**Credits:** 3

**Course Title:** Practical Infection Control

**Course Description:** Studies the principles of management of disease-producing microorganisms and associated diseases. Emphasizes sterilization, asepsis, and disinfection techniques applicable in the dental office. Prerequisite: Completion of courses in Health Science I Career Studies Certificate. Prerequisites or Co-requisites: DNA 100, DNA 103, DNA 108, DNA 113, and DNA 120. 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, blood borne pathogens, disease transmission, and chemical hazards.

**Course Prerequisites and Co-requisites:**

Prerequisite: Completion of courses in Health Science I Career Studies Certificate

Prerequisites or Co-requisites: DNA 100, DNA 103, DNA108, DNA 113, and DNA 120

**Student Learning Outcomes:**

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 hand washing;
- e. Describe the importance of hand washing;
- 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 blood borne 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; and
- 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

**Date Created/Updated (Month, Day, Year):** May 10, 2019