

**DE 51 Course Outline as of Fall 2011****CATALOG INFORMATION**

Dept and Nbr: DE 51

Title: OCCUP HEALTH AND SAFETY

Full Title: Occupational Health and Safety

Last Reviewed: 9/10/2018

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	2.00	Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	2.00	Lab Scheduled	0	17.5	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	2.00		Contact Total	35.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00

Total Student Learning Hours: 105.00

Title 5 Category: AA Degree Applicable

Grading: Grade Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

**Catalog Description:**

The science and principles of current infection control protocol, dental office safety and accident prevention. Focus is on the Centers for Disease Control (CDC) Guidelines for Infection Control in Dentistry and the OSHA Hazard Communication Standard.

**Prerequisites/Corequisites:**

Course Completion or Current Enrollment in DE 50

**Recommended Preparation:**

Eligibility for ENGL 100 or ESL 100

**Limits on Enrollment:**

Acceptance to the Allied Dental Program

**Schedule of Classes Information:**

Description: The science and principles of current infection control protocol, dental office safety and accident prevention. Focus is on the Centers for Disease Control (CDC) Guidelines for Infection Control in Dentistry and the OSHA Hazard Communication Standard. (Grade Only)

Prerequisites/Corequisites: Course Completion or Current Enrollment in DE 50

Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment: Acceptance to the Allied Dental Program

Transfer Credit: CSU;  
Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>CSU Transfer:</b>	Transferable	Effective: Fall 1997	Inactive:
<b>UC Transfer:</b>		Effective:	Inactive:

### **CID:**

#### **Certificate/Major Applicable:**

Both Certificate and Major Applicable

## **COURSE CONTENT**

### **Outcomes and Objectives:**

Upon completion of this course, students will be able to:

1. Explain the Centers for Disease Control (CDC) Guidelines for management of blood borne pathogens, hazardous waste, and biomedical waste.
2. Integrate into practice the components of the California Dental Board's Infection Control Regulations.
3. Describe the principles of infection control in relation to the "Chain of Infection."
4. Develop a written Personnel Health Program.
5. Identify the blood borne pathogens and recommend strategies of preventing the transmission of blood borne diseases.
6. Develop a flowchart for the management of occupational exposures to blood borne pathogens.
7. Compare and contrast various types of personal protective equipment.
8. Examine the issues associated with the use of latex products in dentistry.
9. Analyze the various methods of heat sterilization and compare the advantages and disadvantages of each method.
10. Analyze the various types of surface disinfectants and compare the advantages and disadvantages of each method.
11. Describe the methods of handling both regulated and non-regulated dental waste.
12. Identify the categories of environmental surfaces and describe the appropriate method for managing contamination.
13. Evaluate the types of dental unit waterline control devices and explain the pros and cons of each.
14. Describe the appropriate infection control measures associated with dental radiography.
15. Explain the differences between the infection control protocols for surgical vs. nonsurgical dental procedures.
16. Develop a written chemical management plan, that includes methods of labeling and Material Safety Data Sheets (MSDSs).
17. Develop a medical waste management plan.

### **Topics and Scope:**

A. Agencies:

1. Centers for Disease Control (CDC).
2. California Dental Board (CDB).
3. Occupational Safety and Health Administration (OSHA).
4. Environmental Protection Agency (EPA).

B. Written Programs and Protocols:

1. Personnel health program.
2. Exposure management plan.
3. Chemical management plan.
4. Waste management plan.

C. Principles of Infection Control:

1. Diseases.
2. Types of pathogens.
3. Modes of transmission.
4. Chain of infection.

D. Hand Hygiene:

1. Issues.
2. Hand hygiene in practice.
3. Choosing hand hygiene products.
4. Hand washing techniques.

E. Personal Protective Equipment (PPE):

1. Types of PPE.
2. Preventing exposure with PPE.
3. Choosing appropriate PPE.

F. Contact Dermatitis and Latex Allergies:

1. Types of dermatitis.
2. Latex hypersensitivity.
3. Reducing exposure to latex:
  - a. Education
  - b. Patient screening
  - c. Managing latex-allergic patients

G. Precleaning:

1. Methods.
2. Comparison of methods.

H. Heat Sterilization:

1. Classification of instruments, devices, and equipment.
2. Instrument processing area.
3. Types, advantages and disadvantages:
  - a. Steam autoclaves
  - b. Dry heat sterilizer
  - c. Unsaturated chemical vapor

I. Monitoring:

1. Biological
2. Process indicators.
3. Process integrators.

J. Surface Disinfection:

1. Categories of surfaces.
2. Levels of disinfectants.
3. Evaluating disinfectants.

K. Dental Unit Waterlines:

1. The issues.

2. Water quality devices.
3. Monitoring dental unit water.

**L. Dental Radiography:**

1. The issues.
2. Preparation and exposure.
3. Processing .
  - a. manual
  - b. automatic

**M. OSHA Hazard Communication Standard:**

1. Components.
2. Evaluation of program.

**N. General Office Safety:**

1. Disaster Plan.
2. Evacuation.
3. Communication.
4. Office safety inspection.

**Assignment:**

1. Reading assignments (10 - 20 pages per week)
2. Quizzes (6 - 8)
3. Exams (Midterm and Final)
4. Writing: (1) personnel plan, (1) waste management plan, (1) exposure management plan, (1) chemical management plan
5. (1) research paper and oral presentation of paper

**Methods of Evaluation/Basis of Grade:**

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written personnel plan; written exposure management plan; chemical management plan; waste management plan; research paper.

Writing  
40 - 50%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

None

Problem solving  
0 - 0%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None

Skill Demonstrations  
0 - 0%

**Exams:** All forms of formal testing, other than skill performance exams.

Multiple choice, completion: quizzes, midterm, and final examination.

Exams  
40 - 50%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

Oral presentation of research paper.

Other Category  
5 - 10%

**Representative Textbooks and Materials:**

Mosby's Dental Hygiene, Concepts, Cases, and Competencies, Daniel S., Harfst S., CV Mosby, 2010

Modern Dental Assisting, Bird D., Robinson D., 10th Ed., 2011, Elsevier

From Policy to Practice: OSAP's Guide to the Guidelines, Organization for Safety and Asepsis Procedures, 2004, (classic), Maryland

Instructor-prepared materials