

**DH 69 Course Outline as of Fall 2024****CATALOG INFORMATION**

Dept and Nbr: DH 69 Title: MED EMERG/DENT PRAC

Full Title: Medical Emergencies in Dental Practice

Last Reviewed: 3/14/2023

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	1.00	Lecture Scheduled	1.00	17.5	Lecture Scheduled	17.50
Minimum	1.00	Lab Scheduled	0	6	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	1.00		Contact Total	17.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 35.00

Total Student Learning Hours: 52.50

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: DH 71.1

**Catalog Description:**

In this course, students will learn the basics of prevention and management of common medical emergencies that may occur within and surrounding the dental office. Students will discuss the legal considerations in assisting during emergencies, learn to recognize the clinical signs and symptoms of emergencies and procedures to prevent escalation of emergency situations, study the management of medical emergencies, and learn about drugs and equipment utilized in an emergency.

**Prerequisites/Corequisites:**

Course Completion or Current Enrollment in DH 71A and DE 51

**Recommended Preparation:****Limits on Enrollment:**

Acceptance to Allied Dental Program

**Schedule of Classes Information:**

Description: In this course, students will learn the basics of prevention and management of common medical emergencies that may occur within and surrounding the dental office. Students will discuss the legal considerations in assisting during emergencies, learn to recognize the

clinical signs and symptoms of emergencies and procedures to prevent escalation of emergency situations, study the management of medical emergencies, and learn about drugs and equipment utilized in an emergency. (Grade Only)

Prerequisites/Corequisites: Course Completion or Current Enrollment in DH 71A and DE 51

Recommended:

Limits on Enrollment: Acceptance to 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:
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<b>CSU Transfer:</b>	Transferable	Effective:	Spring 2001	Inactive:
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<b>UC Transfer:</b>		Effective:		Inactive:
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**CID:**

**Certificate/Major Applicable:**

Major Applicable Course

## **COURSE CONTENT**

**Student Learning Outcomes:**

At the conclusion of this course, the student should be able to:

1. Evaluate a patient's general health to prevent anticipated emergencies, recognize the signs and symptoms, and initiate the appropriate early management of common medical emergencies potentially occurring in a dental setting.

**Objectives:**

At the conclusion of this course, the student should be able to:

1. Apply theoretical knowledge base and critical thinking skills in the prevention, identification, and/or response to common medical emergencies in the dental setting.
2. Describe the signs and symptoms of common medical emergencies.
3. Obtain and interpret a completed medical history to thoroughly evaluate a patient's general health.
4. Record, evaluate, and monitor vital signs for indication of treatment modifications needed for each patient.
5. Identify and compare predisposing factors placing patients at greater risk for medical emergencies, including vital signs and assessments based on the American Society of Anesthesiologists (ASA) classification system.
6. Communicate effectively during interactions with the emergency health care providers and patients.
7. Recognize and prepare the items commonly found in a basic emergency kit and operate the equipment necessary to manage a medical emergency.
8. Use a team approach to prepare the dental team for the appropriate management methods during simulated medical emergencies.

9. Describe the legal and ethical considerations and responsibilities of the dental team in the management of emergency situations.
10. Demonstrate the utilization of information found in an online dental drug reference source in relation to health history and treatment planning for stress reduction protocol.

## **Topics and Scope:**

### **I. Preventing Medical Emergencies**

- A. Physical evaluation and health history review
- B. Patient vital signs
- C. Treatment planning modifications

### **II. Preparing for Medical Emergencies**

- A. Office preparation and staff assignments
- B. Staff training
- C. Emergency techniques
- D. Basic emergency kit
  1. Emergency drugs
  2. Emergency equipment

### **III. Legal Considerations of Medical Emergencies**

- A. Theories of liability
- B. Standard of care during emergency situations
- C. Limiting liability for emergencies
- D. Documentation for emergencies

### **IV. Early Recognition and Management of Common Medical Emergencies**

- A. Unconsciousness
  1. Syncope
  2. Postural hypotension
  3. Acute adrenal insufficiency
- B. Respiratory distress
  1. Airway obstruction
  2. Hyperventilation
  3. Asthma
  4. Heart failure/acute pulmonary edema
- C. Altered consciousness
  1. Diabetes mellitus
    - a. Insulin shock
    - b. Diabetic coma
  2. Thyroid gland dysfunction
  3. Cerebrovascular accident
- D. Seizures
  1. Absence/partial seizures
  2. Tonic-clonic seizures
- E. Drug related emergencies
  1. Drug overdose
  2. Drug allergy
    - a. Anaphylaxis
- F. Cardiac emergencies
  1. Angina pectoris
  2. Acute myocardial infarction
  3. Cardiac arrest
  4. Pacemaker/implantable cardioverter defibrillator malfunction
- G. Other emergencies

1. Hemorrhage
2. Shock
3. Burns
4. Intraocular foreign body/chemical solution
5. Broken instrument tip in oral cavity
6. Dislocated jaw
7. Avulsed tooth

**Assignment:**

1. Weekly reading assignment
2. Complete readiness assessment assignments (5-10)
3. Complete quizzes (5-10)
4. Final exam
5. Role-play in medical emergency preparedness
6. Complete group project 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.

Group project paper	Writing 10 - 20%
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**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Readiness assessment assignments	Problem solving 10 - 20%
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**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Medical emergency preparedness role-play	Skill Demonstrations 10 - 20%
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**Exams:** All forms of formal testing, other than skill performance exams.

Quizzes; final exam	Exams 50 - 60%
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**Other:** Includes any assessment tools that do not logically fit into the above categories.

None	Other Category 0 - 0%
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**Representative Textbooks and Materials:**

Medical Emergencies Essentials for the Dental Professional. 2nd ed. Grimes, Ellen B. Pearson. 2022.

Medical Emergencies in the Dental Office. 8th ed. Malamed, Stanley F. Mosby. 2022.

Instructor prepared materials