COURSE INFORMATION FORM

DISCIPLINE  Dental Assisting
COURSE TITLE  Dental, Medical Emergencies and Pharmacology
CR.HR  2  LECT HR.  2  LAB HR.  CLIN/INTERN HR.  CLOCK HR. 

CATALOG DESCRIPTION
This course provides an overview of emergencies common to the dental office settings. Students will gain knowledge in emergency drugs, allergic reactions and drug-related emergencies. Also emphasized are specific medical conditions related to treatment, management of medical emergencies, pharmacology related to dental practice, different types of anesthesia used in the dental office, the methods of administration and precautions during their use.

PREREQUISITES
Formal admission to the Dental Assisting Program, DENA 100 and ENGL 101 with a C or better

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)
Upon completion of this course, the student will be able to:
1. Describe the dental emergencies, recognition, prevention and management.
2. Describe the medical emergencies, recognition, prevention and management.
3. Identify the various types of drugs in dentistry, their uses and reactions.
4. Define pain control in dentistry.
5. Explain the dental team’s general legal duties to the patient and measures to prevent lawsuits against the dental team.

GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.

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<tr>
<th>Outcomes</th>
<th>ESO</th>
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PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

3. Exhibit professional code of ethics and values of the profession.
   - Articulate unique nature and importance of occupation to varied audiences.
   - Demonstrate professional responsibilities of a dental assistant in the field.

5. Understand importance of lifelong learning to promote personal and professional growth.
   - Understand the importance of improving academic and clinical skills to enhance occupational performance.
   - Articulate the importance of research and the use of professional literature in practice.

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes may be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

- Written Examinations, 1-5
- Assignments, 1-5
- Papers, 1-5
- Quizzes, 1-5
- Student Performance Evaluation, 1-5
COURSE OUTLINE FORM

DISCIPLINE: Dental Assisting

COURSE TITLE: Dental, Medical Emergencies and Pharmacology

Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Dental Emergencies
   A. Non Traumatic
      1. Pulpitis
      2. Periapical and Periodontal Abscess
      3. Periradicular Cyst
      4. Pericoronitis
      5. Alveolar Osteitis (Dry Socket)
      6. Cellulitis
      7. Ludwig’s Angina
   B. Traumatic
      1. Hemorrhage
      2. Shock
      3. Burns
      4. Foreign Body in the Eye
      5. Chemical Solutions in the Hands and Eye
      6. Dislocated Jaw
      7. Broken Braces and Wires
      8. Facial Fractures
         a. Lefort Fractures
         b. Mandibular Fractures
      9. Sports Related Injuries
     10. Fractured Teeth
         a. Crown Fractures and Classification
         b. Root Fractures
     11. Traumatic Intrusion
     12. Avulsed Tooth
     13. Soft Tissue Injury
     14. Displaced Teeth
   C. Etiology
   D. Signs and Symptoms
   E. Diagnostic Testing
   F. Management and Prevention
   G. Complications
II. Prevention of Dental Office Emergencies
   A. Steps
   B. Basic Equipment
   C. Four Primary Vital Signs
   D. Asa Physical Status Classification
E. BLS
F. Role of Personnel

III. Dental Office Preparation
   A. Role of Dental Auxiliary
   B. Office Emergency Routine
   C. Emergency Supply Kit
   D. Oxygen Tank

IV. Emergency Protocol For MCC

V. Altered Consciousness Emergencies
   A. Syncope
   B. Seizure Disorders
   C. Diabetes Mellitus
   D. Cerebrovascular Accident (CVA)

VI. Respiratory Distress Emergencies
   A. Asthma
   B. Hyperventilation
   C. Airway Obstruction

VII. Cardiovascular Emergencies
   A. Angina Pectoris and Myocardial Infarction
   B. Cardiopulmonary Resuscitation

VIII. Immune System Emergencies

IX. Special Patient Needs Related Dental and Medical Emergencies
   A. Americans with Disabilities Act
   B. Aging Population
   C. Medically Compromised Patients
   D. Alzheimer's Patient
   E. Seizures
   F. Multiple Sclerosis
   G. Parkinson's
   H. CVA-Cerebral Vascular Accident
   I. Cardiovascular Disorders
   J. Pulmonary Disorders
   K. Blood Disorders
   L. Musculoskeletal Disorders
   M. Endocrine Disorders
   N. Psychiatric Disorders
   O. Eating Disorders
   P. Substance-Related Disorders

X. Legal Problems of Emergency Care
   A. Good Samaritan Law
   B. Preventing Legal Problems

XI. Anesthesia and Pain Control
   A. Pharmacology Related to Dentistry
   B. Prescriptions
      1. Parts
      2. Common Latin Abbreviations
      3. Phoning in Prescriptions
   C. Drug Names
   D. Administration of Drugs
1. Doses and Dosages
2. Effects and Side-Effects
E. Types Of Drugs
   1. Antibiotics
   2. Analgesics
   3. Antianxiety
F. Management of Pain and Anxiety
G. Topical Anesthetics
H. Local Anesthetics
I. Injection Sites
J. Nitrous Oxide Sedation
K. Intravenous Sedation
L. General Anesthesia
XII. Management of Medical Emergencies in the Dental Office and First Aid
    A. Preventing Medical Emergencies
    B. Emergency Preparedness
    C. Emergency Supply Kit
    D. First Aid