

# Michael E. DeBakey High School for Health Professions

## Course Syllabus

2008-2009

**COURSE:** Health Science Technology II – Dental Science

**INSTRUCTOR:** M. Dupre

**Conference Period:** 8 (B4)

**Email:** [mdupre@houstonisd.org](mailto:mdupre@houstonisd.org)

**REQUIRED SUPPLIES:** White lab coat, colored pencils, 1-1/2 inch binder, paper, pen and pencil, highlighter, dividers and time tracker

**Textbook and Resources:** Modern Dental Assisting, Dental Instruments

### **COURSE DESCRIPTION:**

Dental Science is a 12-week rotation class offered in the junior year. The course is designed to give the student an overview of the dental profession as well as to teach specific skills that are necessary for success.

### **GRADING POLICIES:**

10% Professionalism

45% Daily Grades (Quizzes, Labs, Worksheets, etc.)

45% Major Grade (Exams and Dental Research Project)

### **COURSE OUTLINE:**

#### **I. Orientation**

- a. Classroom Policies and Procedures
- b. Leadership
- c. Medical Organizations – HOSA, Medical Explorer, Junior Achievement
- d. Dental Research Project
- e. Current Event Article
- f. Weekly Vocabulary Quizzes

#### **II. Safety**

- a. General and Laboratory Safety
- b. Fire Safety

#### **III. Dental Specialties**

- a. Dental Public Health
- b. Endodontics
- c. Oral and Maxillo Facial Surgery
- d. Orthodontics
- e. Pediatric Dentistry
- f. Periodontics
- g. Prosthodontics
- h. Oral Pathology

#### **IV. Dental Ethics**

- a. Ethical and Legal Responsibilities
- b. Jurisprudence

## **Course Syllabus - 2007-2008 (continue)**

- V. **Anatomy and Physiology**
  - a. Bones of the Cranium
  - b. Muscles of Mastication
  - c. Blood Supply to Head and Neck
  - d. Nerve Supply to Head and Neck
  - e. Salivary Glands
  - f. Oral Structure
  
- VI. **Microbiology**
  
- VII. **Infection Control**
  - Disinfection
  - Sterilization
  
- VIII. **Oral Pathology**
  - Developmental Defects
  - Oral Diseases and Conditions
  - Neoplasms
  
- IX. **Tooth Morphology**
  
- X. **Preventive Dentistry / Nutrition**
  
- XI. **Patient Charting**
  
- XII. **Dental Instruments and Procedures**
  
- XIII. **Radiology**

### **LABORATORY EXERCISES**

- I. **Impression Materials**
  - Alginates
  - Rubber Impression Materials
  
- II. **Gypsum Models**
  
- III. **X-Rays**
  - Developing and Processing
  - Mounting
  
- IV. **Cements and Bases**

### **PROJECTS:**

- I. Dental Research Paper (Presentation)
- II. Current Events