



## INSTRUCTIONAL PACKAGE

DAT 123

Oral Medicine/Oral Biology  
Lecture

SPRING /2018

# INSTRUCTIONAL PACKAGE

## Part I: Course Information

Effective Term: 201720

COURSE PREFIX: DAT 123

COURSE TITLE: Oral Medicine/Oral Biology

CONTACT HOURS: 3

CREDIT HOURS: 3

### **RATIONALE FOR THE COURSE:**

DAT 123 Oral Medicine/Oral Biology introduces the Expanded Duty Dental Assisting student to the realm of chairside assisting in dentistry and functions the dental assistant performs in the profession of dentistry as it pertains to the their role in assisting the dentist with recognition of oral pathology, recognition and assisting with medical and medical emergencies as well as the dental assistant's role in providing the patient with counseling on medications as they are prescribed by the dentist. It builds upon the knowledge and skills taught in the fall semester courses DAT 118 Dental Morphology, DAT 127 Dental Radiography, and DAT 154 Clinical Procedures I.

### **CATALOG DESCRIPTION:**

This course presents a basic study of oral pathology, pharmacology, nutrition, and common emergencies as related to the role of the Dental Assistant.

### **COURSE DESCRIPTION:**

This course provides for proficiency of dental assisting in the clinical setting with emphasis on Pharmacology, Oral Pathology, Medical and Dental Emergencies. It teaches the student to identify normal and abnormal oral tissues, theory behind prescribing medications in dentistry and the role of the dental assistant during common dental and medical emergencies.

### **PRE-REQUISITES:**

Admission to Expanded Duty Dental Assisting program

3-0-3	ENG 155	Communications 1
3-3-4	BIO 112	Basic Anatomy and Physiology
1-0-1	AHS 106	Cardiopulmonary Resuscitation
3-3-4	DAT 113	Dental Materials
2-0-2	DAT 118	Dental Morphology
3-3-4	DAT 127	Dental Radiology
2-6-4	DAT 154	Clinical Procedures I
3-0-3	PSY 203	Human Relations

### **CO-REQUISITES:**

1-0-1 DAT 115 Ethics Professionalism  
2-0-2 DAT 121 Dental Health Education  
1-3-2 DAT 122 Dental Office Management

1-6-3 DAT 174 Dental Office Rotations

2-3-3 DAT 183 Specialty Functions

**REQUIRED TEXT:**

Please visit the Bookstore online site for most current textbook information. Use the direct link to find textbooks, [BOOKSTORE](#). Enter the semester, course prefix, number and section when prompted and you will be linked to the correct textbook.

**TECHNICAL REQUIREMENTS:**

Access to Desire2Learn (D2L), HGTC's student portal for course materials WaveNet and D2L email access

**CLASSROOM ETIQUETTE:**

Please refer to the HGTC Dental Sciences Policies and Procedures for additional information

## **PART II: STUDENT LEARNING OUTCOMES**

**COURSE LEARNING OUTCOMES AND ASSESSMENTS:**

Dental assistants must appreciate their role as a health care provider in a dental office. This role requires the Expanded Duty Dental Assisting student be proficient in the background knowledge to perform clinical dental assisting duties and supportive treatments as it pertains the care of patients during medical and dental emergencies as well explaining the instructions and reasons for the medications prescribed by the dentist. The Expanded Duty Dental Assisting student will also be able to identify normal soft and hard tissue of the oral cavity and to alert the dentist should the patient present with possible abnormal tissues. Therefore, upon completion of the following sections of DAT 123, the Expanded Duty Dental Assisting student will be competent to perform the following:

- 1) Discuss the following pharmacological agents and their actions upon the pathological causes.
  - Analgesics
  - Antibiotics
  - Antihistamines
  - Anesthetics
  - Controlled substances
- 2) Explain the components of a medication prescription.
- 3) Transcribe a medical prescription as directed by a supervising dentist.
- 4) Discuss the changes that affect the normal oral anatomy as it pertains to the following
  - Inflammation and oral lesions
  - Biological agents
  - Physical agents
  - Chemical agents
  - Developmental disturbances
  - Oral lesion related to AIDS, HIV and other viruses
- 5) Discuss the role of the dental assistant in assisting patients who may have various medical and dental emergencies in the dental office.
- 6) Perform various roles in assisting the dentist during various dental or medical emergencies or patients who may have various medical and dental emergencies in the dental office.

## **UNIT LECTURE AND LAB LEARNING OUTCOMES AND ASSESSMENTS**

At the completion of the lecture, lab and assigned readings, the student will be able to:

### **Module 1: General Anatomy and Physiology**

Material Covered: Chapter 6

Assessments: Written Test & Final Exam

- 1) List the body systems, body planes and directions, and cavities of the body, and describe the structure and function of the cell.
- 2) Explain the functions and structure of the skeletal system, list the composition of the bone, and identify the types of joints.
- 3) List the functions and structure of the muscular, nervous, endocrine, reproductive, circulatory, digestive, respiratory, lymphatic, immune and integumentary systems.

### **Module 2: General Principles of Pharmacology and Drug Reaction**

Material Covered: Chapter 15

Assessments: Written Test & Final Exam

- 1) Identify terms related to drugs, pharmacology, and medicines.
- 2) Identify the difference between drug brand names and generic names.
- 3) Identify the parts of a written prescription.
- 4) Identify the texts pertinent to pharmacology.
- 5) Give the English meaning of the Latin abbreviations used for prescriptions.
- 6) Specify the drug laws and who enforces them.
- 7) Identify the schedules for the comprehensive Drug Abuse Prevention and Control Act of 1970.
- 8) Identify the routes through which drugs can be administered
- 9) Demonstrate an understanding of the drugs used in dentistry, and the ways in which they are used.
- 10) Summarize the uses and effects of nicotine, caffeine, alcohol, marijuana, and cocaine.
- 11) Summarize information about heroin, morphine, and codeine.
- 12) Supply information about amphetamines.
- 13) Demonstrate an understanding of hallucinogenic drugs such as LSD, PCP, and mescaline.
- 14) Demonstrate an understanding of barbiturates.

### **Module 3: Emergency Management**

Material Covered: Chapter 16

Assessments: Written Test & Final Exam

- 1) Describe several emergency situations that may take place in the dental office. Explain how dental assistants can be prepared for these possibilities.
- 2) Describe the CAB approach to CPR and demonstrate the associated skills.
- 3) Define the terms and anatomy used in CPR deliver. Determine if the patient is unconscious and demonstrate knowledge of how to open the airway, as well as when and how to deliver chest compressions.
- 4) List and describe several causes of airway obstructions in the dental office. Demonstrate the ability to open the airway and to perform the Heimlich maneuver.

- 5) List and describe the signs and treatment for syncope, asthma, allergic reactions, anaphylactic reaction, hyperventilation, epilepsy, diabetes mellitus, hypoglycemia, angina pectoris, myocardial infarction, congestive heart failure, and stroke/cerebrovascular accident.
- 6) List and describe several dental emergencies that a patient may have, such as an abscessed tooth, alveolitis, avulsed tooth, broken prosthesis, soft tissue injury, broken tooth, and loose crown.
- 7) Explain how a pulse oximeter, capnography, and electrocardiography work, and how they can be used in the dental office.

#### **Module 4: Anesthesia and Sedation**

Material Covered: Chapter 20

Assessments: Written Test & Final Exam

- 1) Describe the methods used to manage the pain and anxiety associated with dental procedures.
- 2) Explain various topical anesthetics and their placements.
- 3) Describe types of local anesthetics.
- 4) Identify the injection sites for the maxillary and mandibular arches.
- 5) Describe the equipment and materials needed to administer local anesthetic.
- 6) List the steps for preparing for the administration of local anesthetic.
- 7) Identify supplemental techniques to administer anesthetics.
- 8) Discuss the role of nitrous oxide in the care of the dental patient.
- 9) Demonstrate the ability to assist in the administration of nitrous oxide.

#### **Module 5: Oral Pathology**

Material Covered: Chapter 27

Assessments: Written Test & Final Exam

- 1) Define oral pathology and identify the dental assistant's role in this specialty.
- 2) Characterize the process of inflammation including acute and chronic inflammation.
- 3) Identify oral lesions according to placement.
- 4) Identify oral diseases and lesions related to biological agents.
- 5) Describe oral diseases and lesions related to physical agents.
- 6) Identify oral diseases and lesions related to chemical agents.
- 7) Identify oral conditions related to hormonal disturbances.
- 8) Identify oral conditions related to developmental disturbances.
- 9) Distinguish among oral conditions related to nutritional deficiencies.
- 10) Discuss oral cancers and its warnings.
- 11) Identify the conditions and lesions of oral neoplasms.
- 12) Identify oral lesions related to HIV and AIDS.
- 13) Describe the conditions related to miscellaneous disorders affecting the oral cavity.

### **PART III: GRADING AND ASSESSMENT**

#### **EVALUATION OF REQUIRED COURSE MEASURES/ARTIFACTS:**

#### **Part III: Grading and Assessment**

#### **EVALUATION OF REQUIRED COURSE MEASURES/ARTIFACTS\***

Students' performance will be assessed and the weight associated with the various measures/artifacts are listed below.

### **EVALUATION**

Test	80%
Final Exam	20%

### **GRADING SYSTEM:**

A=90-100

B=80-89

C=77-79

D=70-76

F=69 and below

A passing grade of 77% or better is mandatory in both the laboratory and lecture portion of the course in order to continue in the EDDA Program.

Grades earned in courses impact academic progression and financial aid status. Before withdrawing from a course, be sure to talk with your instructor and financial aid counselor about the implications of that course of action. Ds, Fs, Ws, WFs and Is also negatively impact academic progression and financial aid status.

The Add/Drop Period is the first 5 days of the semester for **full term** classes. Add/Drop periods are shorter for accelerated format courses. Please refer to the academic calendar for deadlines for add/drop (ACADEMIC CALENDAR). You must attend at least one meeting of all of your classes during that period. If you do not, you will be dropped from the course(s) and your Financial Aid will be reduced accordingly.

***\*Students, for the specific number and type of evaluations, please refer to the Instructor's Course Information Sheet.***

## **Part IV: Attendance**

Horry-Georgetown Technical College maintains a general attendance policy requiring students to be present for a minimum of eighty percent (80%) of his or her classes in order to be eligible to receive credit for any course. However, due to the varied nature of courses taught at the College, a more rigid attendance policy may be required by individual instructors. At a minimum, a student may be withdrawn from a course(s) after he or she has been absent in excess of ten percent (10%) of the total contact hours for a course. Please refer to the HGTC Dental Sciences Policies and Procedures Manual for additional information relating to this programs attendance requirements.

## **Part V: Student Resources**



### **The Student Success and Tutoring Center (SSTC)**

The SSTC offers to all students the following **free** resources:

- 1) **Academic coaches** for most subject areas, **Writing Center Support**, and **college success skills**.
- 2) **On-line student success and academic support resources**.

Visit the SSTC website: [Student Success & Tutoring Center](#) and visit the student services tab in your WaveNet account to schedule appointments using TutorTrac. For more information, call: SSTC Conway, 349-7872; SSTC Grand Strand, 477-2113; and SSTC Georgetown, 520-1455. Room locations and Live Chat is available on the SSTC website.



### **Student Information Center: WaveNet Central (WNC)**

WNC offers to all students the following **free** resources:

- 1) **Getting around HGTC:** General information and guidance for enrollment!
- 2) Use the **Online Resource Center (ORC)** for COMPASS support, technology education, and online tools.
- 3) **Drop-in technology support or scheduled training** in the Center or in class.
- 4) **In-person workshops, online tutorials and more services** are available.

Visit the WNC website: [Wavenet Central](#). Live Chat and Center locations are posted on the website. Or please call one of the following locations: WNC Conway, 349-5182; WNC Grand Strand, 477-2076; and WNC Georgetown, 520-1473.

### **Disability Services:**

HGTC is committed to providing an accessible environment for students with disabilities. Inquiries may be directed to Jocelyn Williams, Director of Student Development on the Conway Campus Jaime Davis, Counselor/Advisor on the Georgetown Campus or Kristin Griffin, Counselor on the Grand Strand Campus. These individuals will review documentation of the student's disability and, in a confidential setting with the student, develop an educational accommodation plan.

Note: It is the student's responsibility to self-identify as needing accommodations and to provide acceptable documentation. After a student has self-identified and submitted documentation of a disability, accommodations may be determined, accepted, and provided.

### **Title IX Requirements**

The South Carolina Technical College System does not discriminate on the basis of race, color, gender, national or ethnic origin, age, religion, disability, marital status, veteran status, sexual orientation, gender identity, or pregnancy in educational programs and activities as required by Title IX. As outlined in the Violence Against Women Act, Horry Georgetown Technical College prohibits the offenses of domestic violence, dating violence, sexual assault, and stalking. Students who believe he or she has

experienced or witnessed discrimination including sexual harassment, domestic violence, dating violence, sexual assault or stalking are encouraged to report such incidents to the Title IX Coordinators:

Dr. Melissa Batten, AVP of Student Affairs  
Building 1100, Room 107A, Conway Campus  
843-349-5228  
[Melissa.Batten@hgtc.edu](mailto:Melissa.Batten@hgtc.edu)

Jacquelyne Synder, AVP of Human Resources  
Building 200, Room 212A, Conway Campus  
843-349-5212  
[Jacquelyne.Synder@hgtc.edu](mailto:Jacquelyne.Synder@hgtc.edu)

\*Faculty and Staff are required to report incidents to the Title IX Coordinators when involving students. The only HGTC employees exempt from mandatory reporting are licensed mental health professionals (only as part of their job description such as counseling services).



## INSTRUCTOR'S COURSE INFORMATION SHEET DAT 123 Oral Medicine/Oral Biology

### Part I: Instructor's Information

Instructor's Names	Dr. Robert Farrar, DDS
Campus Phone Number	Front Desk: 843-839-1034
College Email Address	Robert.farrar@hgtc.edu
Office Location	Speir Building 1000, 1282A
Office Hours	Wednesday 10:50-11:20

### Part II: Course Schedule and Assessments

#### LECTURE & LAB SCHEDULE

DATE	TOPIC <i>(Subject to change)</i>	READING ASSIGNMENT
1/10/18	Class Introduction Module 1: General Anatomy and Physiology	Chapter 6
1/17/18	Module 1: General Anatomy and Physiology Cont.	Chapter 6
1/24/18	Module 1: General Anatomy and Physiology Cont.	Chapter 6
1/31/18	Test 1: Chapter 6	
2/7/18	Module 2: General Principles of Pharmacology and drug Reaction	Chapter 15
2/14/18	Module 2: General Principles of Pharmacology and drug Reaction Cont.	Chapter 15
2/21/18	Test 2: Chapter 15	

2/28/18	Module 3: Emergency Management	Chapter 16
3/7/18	Module 3: Emergency Management Cont.	Chapter 16
3/14/18	Module 4: Anesthesia and Sedation	Chapter 20
3/21/18	Test 3: Chapters 16 & 17	
3/28/18	Spring Break	
4/4/18	Module 5: Oral Pathology	Chapter 27
4/11/18	Module 5: Oral Pathology Cont.	Chapter 27
4/18/18	Test 4: Chapter 27	
4/25/18	Review for Final	
TBA 5/1-5/4	Comprehensive Written Final Examination	

## EVALUATION OF REQUIRED COURSE ASSIGNMENTS

### EVALUATION:

**\*Student must complete lecture grade with a 77% or higher to pass this class.**

4 Test (20 points each)	80%
Final Exam	20%

Grades earned in courses impact academic progression and financial aid status. Before withdrawing from a course, be sure to talk with your instructor and financial aid counselor about the implications of that course of action. Ds, Fs, Ws, WFs and Is also negatively impact academic progression and financial aid status.

The Add/Drop Period is the first 5 days of the semester for **full term** classes. Add/Drop periods are shorter for accelerated format courses. Please refer to the academic calendar for deadlines for add/drop ([ACADEMIC CALENDAR](#)). You must attend at least one meeting of all of your classes during

that period. If you do not, you will be dropped from the course(s) and your Financial Aid will be reduced accordingly.

***\*Students, for the specific number and type of evaluations, please refer to the Instructor's Course Information Sheet.***

### **Part III: Face 2 Face (F2F) Course Policies**

**CLASSROOM DECORUM:**

**CELL PHONE ETIQUETTE:**

Please refer to your Dental Sciences Policies and Procedures Manual for additional information.

**CLASSROOM DECORUM:**

Please refer to your Dental Sciences Policies and Procedures Manual for additional information.

### **Part IV: Attendance**

Horry-Georgetown Technical College maintains a general attendance policy requiring students to be present for a minimum of eighty percent (80%) of his or her classes in order to be eligible to receive credit for any course. However, due to the varied nature of courses taught at the College, a more rigid attendance policy may be required by individual instructors. At a minimum, a student may be withdrawn from a course(s) after he or she has been absent in excess of ten percent (10%) of the total contact hours for a course.

The Dental Sciences Department adheres to the more rigid 10% attendance policy for all courses. Please refer to your Dental Sciences Policies and Procedures Manual for additional information.

**Tardy Policy:**

Please refer to your Dental Sciences Policies and Procedures Manual for additional information.

**Make-up Test Policy:**

Please refer to your Dental Sciences Policies and Procedures Manual for additional information.