



INSTRUCTIONAL PACKAGE

DAT 123

Oral Medicine/Oral Biology

Effective Term

Fall 2022/Spring 2023/Summer 2023

INSTRUCTIONAL PACKAGE

Part I: Course Information

Effective Term: 202220

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

COURSE DESCRIPTION:

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

PREREQUISITES:

DAT 113 Dental Materials
DAT 118 Dental Morphology
DAT 127 Dental Radiology
DAT 154 Clinical Procedures I
DAT 174 Office Rotations

CO-REQUISITES:

DAT 115 Ethics Professionalism
DAT 121 Dental Health Education
DAT 122 Dental Office Management
DAT 177 Dental Office Experience
DAT 183 Specialty Functions

REQUIRED MATERIALS:

Please visit the [BOOKSTORE](#) online site for most current textbook information.

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.

myHGTC and college email access.

STUDENT IDENTIFICATION VERIFICATION:

Students enrolled in online courses will be required to participate in a minimum of one (1) proctored assignment and/or one (1) virtual event to support student identification verification. Please refer to your Instructor Information Sheet for information regarding this requirement.

CLASSROOM ETIQUETTE:

As a matter of courtesy to other students and your professor, please turn off cell phones and other communication/entertainment devices before class begins. If you are monitoring for an emergency, please notify your professor prior to class and switch cell phone ringers to vibrate.

*Refer to the HGTC Dental Sciences Program Manual for additional policies on classroom etiquette.

Part II: Student Learning Outcomes

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.

COURSE LEARNING OUTCOMES and ASSESSMENTS*:

Module 1

Material Covered: Ch. 6 General Anatomy and Physiology

Assessments: Written Test & Final Exam

Objectives:

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

Material Covered: Ch. 15 General Principles of Pharmacology and Drug Reaction

Assessments: Written Test & Final Exam

Objectives:

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

Material Covered: Ch. 16 Emergency Management

Assessments: Written Test & Final Exam

Objectives:

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

Material Covered: Ch. 20 Anesthesia and Sedation

Assessments: Written Test & Final Exam

Objectives:

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

Material Covered: Ch. 27 Oral Pathology

Assessments: Written Test & Final Exam

Objectives:

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.

****Students – please refer to the Instructor's Course Information sheet for specific information on assessments and due dates.***

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

Tests (3)	75%
Final Exam	25%
	100%

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

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. 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.

Part IV: Attendance

Horry-Georgetown Technical College maintains a general attendance policy requiring students to be present for a minimum of 80 percent (80%) of their classes in order to receive credit for any course. Due to the varied nature of courses taught at the college, some faculty may require up to 90 percent (90%) attendance. Pursuant to 34 Code of Federal Regulations 228.22 - Return to Title IV Funds, once a student has missed over 20% of the course or has missed two (2) consecutive weeks, the faculty is obligated to withdraw the student and a student may not be permitted to reenroll. **Instructors define absentee limits for their class at the beginning of each term; please refer to the Instructor Course Information Sheet.**

*Refer to the HGTC Dental Sciences Program Manual for additional policies on attendance.

Part V: Student Resources

THE STUDENT SUCCESS AND TUTORING CENTER (SSTC):

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

1. **Academic tutors** for most subject areas, **Writing Center support**, and **college success skills**.
2. Online **tutoring** and academic support resources.
3. Professional and interpersonal communication **coaching** in the EPIC Labs.

Visit the [Student Success & Tutoring Center](#) website for more information. To schedule tutoring, contact the SSTC at ssc@hgtc.edu or self-schedule in the Penji iOS/Android app or at www.penjiapp.com. Email ssc@hgtc.edu or call SSTC Conway, 349-7872; SSTC Grand Strand, 477-2113; and SSTC Georgetown, 520-1455, or go to the [Online Resource Center](#) to access on-demand resources.



STUDENT INFORMATION CENTER: TECH Central

TECH Central offers to all students the following **free** resources:

1. **Getting around HGTC:** General information and guidance for enrollment, financial aid, registration, and payment plan support!
2. Use the [Online Resource Center \(ORC\)](#) including Office 365 support, password resets, and username information.
3. **In-person workshops, online tutorials and more services** are available in Desire2Learn, Student Portal, Degree Works, and Office 365.
4. **Chat with our staff on TECH Talk**, our live chat service. TECH Talk can be accessed on the student portal and on TECH Central's website, or by texting questions to (843) 375-8552.

Visit the [Tech Central](#) website for more information. Live Chat and Center locations are posted on the website. Or please call (843) 349 – TECH (8324), Option #1.

STUDENT TESTING:

(If course is offered in multiple format include this section, delete if only F2F sections are offered.)

Testing in an **online/hybrid** course may be accomplished in a variety of ways:

- Test administered within D2L
- Test administered in writing on paper
- Test administered through Publisher Platforms

Further more tests may have time limits and/or require a proctor.

Proctoring can be accomplished either face-to-face at an approved site or online through our online proctoring service. To find out more about proctoring services, please visit the [Online Testing](#) section of the HGTC's Testing Center webpage.

The **Instructor Information Sheet** will have more details on test requirements for your course.

DISABILITY SERVICES:

HGTC is committed to providing an accessible environment for students with disabilities. Inquiries may be directed to HGTC's [Accessibility and Disability Service webpage](#). The Accessibility and Disability staff 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.

STATEMENT OF EQUAL OPPORTUNITY/NON-DISCRIMINATION STATEMENT:

Horry-Georgetown Technical College prohibits discrimination and harassment, including sexual harassment and abuse, on the basis of race, color, sex, national or ethnic origin, age, religion, disability, marital or family status, veteran status, political ideas, sexual orientation, gender identity, or pregnancy, childbirth, or related medical conditions, including, but not limited to, lactation in educational programs and/or activities.

TITLE IX REQUIREMENTS:

All students (as well as other persons) at Horry-Georgetown Technical College are protected by Title IX—regardless of their sex, sexual orientation, gender identity, part- or full-time status, disability, race, or national origin—in all aspects of educational programs and activities. Any student, or other member of the college community, who believes that he/she is or has been a victim of sexual harassment or sexual violence may file a report with the college's Chief Student Services Officer, campus law enforcement, or with the college's Title IX Coordinator, or designee.

*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).

INQUIRIES REGARDING THE NON-DISCRIMINATION/TITLE IX POLICIES:

Student and prospective student inquiries concerning Section 504, Title II, and Title IX and their application to the College or any student decision may be directed to the Vice President for Student Affairs.

Dr. Melissa Batten, VP Student Affairs

Title IX Coordinator

Building 1100, Room 107A, Conway Campus

PO Box 261966, Conway, SC 29528-6066

843-349-5228

Melissa.Batten@hgtc.edu

Employee and applicant inquiries concerning Section 504, Title II, and Title IX and their application to the College may be directed to the Vice President for Human Resources.

Jacquelyne Snyder, VP Human Resources

EEO and Title IX Coordinator

Building 200, Room 212A, Conway Campus

PO Box 261966, Conway, SC 29528-6066

843-349-5212

Jacquelyne.Snyder@hgtc.edu