

CHATTANOOGA STATE COMMUNITY COLLEGE
CHATTANOOGA, TENNESSEE
NURSING AND ALLIED HEALTH DIVISION

MASTER SYLLABUS

DAST 1150 DENTAL MATERIALS

Revised 10/4/2010

Instructor: Mark Matney
Phone: (423) 697-4450 (Division Office)
E-mail: Mark.Matney@chattanoogastate.edu
Lecture classroom: HSC 1038

Class/Lab/Credit Hours: 3/3/4
Semester: Fall 2010
Room: HSC 2022
Dental Materials Lab: HSC 2028

Lab Instructors: Mark Matney
Christina Kirstein Email: Christina.Kirstein@chattanoogastate.edu

Catalog Course Description:

Dental laboratory skills will include the proper manipulation and storage of restorative materials, impression materials, gypsum, resins, abrasives, and waxes; emphasis on laboratory and material safety.

Prerequisite:

Students must be college level in Reading and Writing, and at the 0850 level in Math.

Corequisites:

All Fall semester Dental Assisting classes (DAST1120, DAST1130, DAST1140) or permission of instructor

Entry Level Skills:

High School Diploma or equivalent (GED)

Text books and other material basic to the course

Bird, Doni L. and Robinson, Debbie S., Torres and Ehrlich's Modern Dental Assisting, 9th ed., 2009, Elsevier, Inc. Saunders, St. Louis (and workbook and CD's that accompany the text)

Bartolomucci Boyd, Linda R. Dental Instruments, a Pocket Guide 3rd ed., 2009

Columbia Dentoform

Rules and Regulations of the Tennessee Board of Dentistry at
<http://health.state.tn.us/Boards/Dentistry/index.htm>

Login Hybrid course resources: ellearn@chattanoogastate.edu

Login MDA: <http://evolve.elsevier.com/Bird/modern>

Login Instruments: <http://evolve.elsevier.com/Boyd/dentalinstruments>

Policy Manuals:

The Nursing and Allied Health Policy Manual
The Dental Assisting Program Policies and Procedures

Reference (Suggested but not required)

Review Questions and Answers for Dental Assisting Finkbeiner, Betty L., Mosby

Student Learning Outcomes

PSLO 2 Demonstrate dental assisting skills.
CSLO1 Systematically collects diagnostic data.
CSLO 2 Perform a variety of clinical supportive procedures.
CSLO 3 Perform a variety of intraoral functions.
CSLO 4 Perform a variety of specialty procedures.
CSLO 5 Perform a variety of preventive procedures.
CSLO 6 Perform a variety of business office procedures.
CSLO 7 Perform a variety of laboratory procedures.
CSLO 8 Manage infection and hazard control protocol consistent with published professional guidelines to include OSHA and CDC.
PSLO 3 Demonstrate professional behaviors
CSLO 9 Work and communicate effectively with patients and health professionals as a professional dental assistants.
CSLO 16 Demonstrate a basic understanding of legal considerations related to dentistry.
CSLO 17 Students must become Registered as a Dental Assistant in Tennessee (or meet the requirements to practice in another state).
CSLO 18 Students must become prepared for Certification by the Dental Assisting National Board.

Program Student Learning Outcomes (PSLO's). The Dental Assisting Program Student Learning Outcomes were developed using:

- The Accreditation Standards for Dental Assisting Programs published by the Commission on Dental Accreditation (2009)
- The Content outline for the Dental Assisting National Board Exam (2009)
- The Rules and Regulations of the Tennessee Board of Dentistry 0460-.04 Rules Governing Dental Assistants

CSLO:	CSLO 1	CSLO 3	CSLO 4	CSLO 7	CSLO 9
Assessments:	Ch. 46 Recall Questions (RQ) WB Ch. 46 WB 46-1 – 7; 46-5A Ch. 46 Practice Test Test 2: Impression Materials Final Exam	Ch. 43, 44, & 45 RQ WB Ch. 43, 44, & 45 WB 43-1 – 43-4 WB 44-1 – 44-8 WB 45-1 – 45-7 Ch. 43, 44, & 45 Practice Tests Test 3: Restorative and Esthetic Dental Materials	Ch. 51 RQ WB Ch. 51 WB 51-1 – 51-3A Ch. 51 Practice Test Test 6: Provisional Coverage Final Exam	Ch. 47 RQ WB Ch. 47 WB 47-1 – 47-6 Ch. 47 Practice Test Test 1: Laboratory Materials and Procedures Final Exam	Work Ethics Appraisal

		Test 4: Dental Liners, Bases, and Bonding Systems			
		Test 5: Dental Cements			
		Final Exam			

Topics

Laboratory Materials and Procedures.

- Safety in the dental laboratory.
- Dental laboratory equipment.
- Dental models.
- Pouring dental models.
- Custom impression trays.
- Trimming and finishing dental models.
- Dental waxes.

Impression Materials.

- Classification of impressions.
- Impression trays.
- Hydrocolloid materials.
- Elastomeric materials.
- Occlusal (Bite) Registration

Restorative and Esthetic Dental Materials.

- Standardization of dental materials.
- Properties of dental materials.
- Direct restorations materials.
- Temporary restorative materials.
- Tooth-whitening materials.
- Indirect restorative materials.

Dental Liners, Bases, and Bonding Systems.

- Prepared tooth structures.
- Pulpal responses.
- Dental liners.
- Varnish.
- Desensitizer.
- Dental bases.
- Dental etchant.
- Dental bonding.

Dental Cements.

- Classification of dental cements.
- Variables affecting final cementation.
- Types of cement.
- Cement removal.

Provisional Coverage.

- Types of provisional coverage.
- Criteria for provisional fabrication.
- Custom provisional coverage.
- Preformed crowns.
- Trouble-shooting when making a provisional.
- Home care instructions.
- Removal of temporary crowns.

Instructional Activities (Learning Activities)

Activities may include but are not limited to the following:

LA1 Students will use the e-learn website to participate in the following learning activities:

- A. View PowerPoint presentations.
- B. Check MDA workbook chapter answers.
- C. Participate in discussion boards.
- D. Take tests.
- E. Access related websites.

LA2 Students will complete homework assignments to strengthen their depth of understanding of subject material through:

- A. Reading assigned content in texts and complete recall questions.
- B. Completion of assigned MDA workbook chapters.
- C. Viewing assigned DVD sections (multimedia procedures, videos, and animations).
- D. Completion of assigned Interactive Dental Office (IDO) exercises.
- E. Use of Evolve learning resources (games, labeling exercise, etc.).
- F. Taking Evolve practice tests.

LA3 Classroom instructional activities include:

- A. Lecture.
- B. Discussion.
- C. Role Play
- D. Case Studies
- E. Critical thinking.
- F. Ethical and legal considerations.
- G. Viewing Videos and/or models

LA4 Laboratory instructional activities include:

- A. Instructor demonstrations
- B. Students perform laboratory exercises on manikins or student partners

Assessment

Tests are designed to measure the learning outcomes stated in the master syllabus. They may be multiple choice, true/false, matching, short answer, or essay questions.

Chapter Tests	50%
Test 1 Laboratory Materials and Procedures	
Test 2 Impression Materials	
Test 3 Restorative and Esthetic Dental Materials	
Test 4 Dental Liners, Bases, and Bonding Agents	
Test 5 Dental Cements	
Test 6 Provisional Coverage	
Final Exam	25%
Homework	25%
Recall Questions MDA Ch. 43 – 47 and 51	
Workbook, MDA Ch. 43 – 47 and 51	
Evolve Practice Tests MDA Ch. 43 – 47 and 51	
Lab expectations	Pass/Fail*
WB Competencies 46-1 – 7; 46-5A, 43, 44, & 45, 43-1 – 43-4, 44-1 – 44-8, 45-1 – 45-7, 51-1 – 51-3A, 47-1 – 47-6	
Total	100%

*ALL LABORATORY PERFORMANCE OUTCOMES (referred to as “competencies” in the MDA workbook and program-competencies worksheet) MUST BE PASSED TO PASS this course. Passing means the student has successfully performed all steps identified in the competency evaluation form as determined by

the laboratory instructor. Each student has three attempts to Pass the competencies. If a student is unable to Pass a competencies they will expelled from the Dental Assisting Program.

If a student is absent form a lab the student will fail all the competencies for day that they missed. Students must meet with the Instructor(s) to reschedule a time to make up the missed lab. Once a date and time has been arranged the student must fill out a Lab Make-up form and sign and date the form. If the student fails to attend the make-up lab on the arranged date and time without a doctor's note or some other form of documentation, then the student will fail their second competencies and another Lab Make-up form must be filled out.

Grading Scale (Departmental)

90 – 100=	A
80 – 89 =	B
75 – 79 =	C
65 – 74 =	D
Below 65=	F

A grade of “C” or better is required to receive credit for this class.

Course Delivery Format Options

Hybrid Format – This format requires significant online activity. Students in hybrid classes must access course content and assessments using the Internet in order to pass the class, whether it meets full-time or part-time in the classroom. Faculty need not hand out a copy of the syllabus and any other required course material, including their contact information.

College Policies

This class is governed by the policies and procedures stated in:

1. the current Chattanooga State Student Handbook. Available at <http://www.chattanoogastate.edu>
2. the current Nursing and Allied Health Handbook (Handout at Orientation)
3. the Dental Assisting Program Policies (Handout at Orientation and posted on E-Learn course website)

ADA Statement

Students who have educational, psychological, and/or physical disabilities may be eligible for accommodations that provide equal access to educational programs and activities at Chattanooga State. These students should notify the instructor immediately, and should contact Disabilities Support Services within the first two weeks of the semester in order to discuss individual needs. The student must provide documentation of the disability so that reasonable accommodations can be requested in a timely manner. All students are expected to fulfill essential course requirements in order to receive a passing grade in a class, with or without reasonable accommodations.

Disruptive Students

The term “classroom disruption” means – student behavior that a reasonable person would view as substantially or repeatedly interfering with the activities of a class. A student who persists in disrupting a class will be directed by the faculty member to leave the classroom for the remainder of the class period. The student will be told the reason(s) for such action and given an opportunity to discuss the matter with the faculty member as soon as practical. The faculty member will promptly consult with the division dean and the college judicial officer. If a disruption is serious, and other reasonable measures have failed, the class may be adjourned, and the campus police summoned. Unauthorized use of any electronic device constitutes a disturbance. Also, if a student is concerned about the conduct of another student, he or she should please see the teacher, department head, or division dean.

Affirmative Action

Students who feel that he or she has not received equal access to educational programming should contact the college affirmative action officer.

Academic Integrity/Academic Honesty

In their academic activities, students are expected to maintain high standards of honesty and integrity. Academic dishonesty is prohibited. Such conduct includes, but is not limited to, an attempt by one or more students to use unauthorized information in the taking of an exam, to submit as one's own work, themes, reports, drawings, laboratory notes, computer programs, or other products prepared by another person, or to knowingly assist another student in obtaining or using unauthorized materials. Plagiarism, cheating, and other forms of academic dishonesty are prohibited. Students guilty of academic misconduct, either directly or indirectly through participation or assistance, are immediately responsible to the instructor of the class. In addition to other possible disciplinary sanctions, which may be imposed through the regular institutional procedures as a result of academic misconduct, the instructor has the authority to assign an "F" or zero for an activity or to assign an "F" for the course.

Email Communication

Please note all communication with instructors about your course work should be through the eLearn Email system. For assistance on how to use the eLearn Email tool go to this url:
http://river.chattanoogaastate.edu/orientations/Student_PDFs/eLearn_eMail_aug09.pdf.

For all other communication the official email system used by the college is through Tiger Mail. This is accessible by clicking the blue paw icon from the top right hand side of your Tiger Web home page <https://tigerweb.chattanoogaastate.edu/cp/home/displaylogin>.

The instructor reserves the right to modify this syllabus in writing during the course of the semester.

Instructor Policies

- Food, drinks, or chewing gum is not allowed in the dental materials labs.
- School uniforms (scrubs) are to be worn to all labs and make-up labs.
- Students may not bring guests, including children, to class or lab except as a patient.
- Please set cell phones to vibrate and do not place or accept calls or texts during class or lab instruction.
- Electronic equipment, unless a laptop, is not allowed in class or labs.
- Audio recorders are not allowed unless by permission of the instructor.
- If you must be absent from a lab, try to make up the lab by attending an earlier or later lab on the same day. The same lab is presented three times a day on Thursdays.
- If you are confused about a task, concept, or assignment, please ask the instructor – not another student.
- Chapter Recall Questions must be submitted by Dropbox through E-learn and must be in Microsoft Word format. If you have MS **Works** and not **Word**, you will have to download a **FREE** and similar version of MS Word 97-2007 from <http://www.openoffice.org/>
- Tests may not be made up except in extenuating circumstances. There is no "curve". If a test is missed, a "0" will be recorded for that grade. No test grade is "dropped".

ACADEMIC CALENDAR:

Refer to Academic Calendar link for Fall 2010 term: <http://www.chattanoogaastate.edu/rocalen.asp>