Prerequisites

None

Course Description

The theory of the structure, properties, and procedures related to dental materials. Safety and universal precautions will be employed. (3 sem hrs; 3 lec).

Statement of Purpose

The dentist aide is responsible for the preparation of a wide variety of dental materials used in chairside treatment and laboratory procedures. Dental personnel must understand the physical properties of these materials and the health and safety regulations for the use of such materials.

Student Performance Goals

Given the course textbook, personal notes, handouts and other related material, the student should:

1. Learn the technical terminology, facts, theories and principals associated with various dental materials as outlined in the course syllabus.
2. Apply the knowledge learned in a dental environment.
3. Evaluate the learning experience from the perspective of the specified course objectives.

The student will know that these goals have been successfully completed if, after evaluation by the instructor, a final grade of "C" or greater is earned.

Course Content Objectives

1. Explain the different types of restorative materials.
2. Explain the role of the dentist aide in preparation of materials.
3. Identify the different types of dental cements.
4. Describe bonding agents and their manipulation.
5. Explain the properties, composition and manipulation of amalgam and composite resins.
6. Identify the armamentarium and procedure steps used during a composite and amalgam restoration.
7. Identify cavity preparation and the terminology used.
8. Identify materials used in the dental laboratory.

Course SCANS competencies

During the course of this semester, the student will fulfill each of the following SCANS competencies by the designated means.

1. **READING** The student will complete all reading assignments and review all handouts.
2. **WRITING** The student will submit written answers to questions given by the instructor on exams, quizzes and study questions.
3. **SPEAKING/ LISTENING** The student will participate verbally in class discussions, and will answer oral questions to the best of their ability. The student will listen to their instructor and classmates in order to take sufficient notes and be able to assimilate the information to ask questions when necessary.
4. **CRITICAL THINKING** The student will formulate information presented in this course and assimilate the information in order to correctly answer the various types of questions. Questions included in quizzes, exams, and study questions will require the student to be able to reason, problem solve, and make logical decisions.
5. **MATHEMATICS** The student will need to understand measurements, ratios, and weights in order to correctly formulate and manipulate the materials.
6. **PERSONAL QUALITIES** The student is expected to perform all assignments independently and to take quizzes and exams independently.

Course Meeting days and Times

Lecture Mondays 9:30 to 12:30 Allied Health Building, room 128
Course Director

Name: Dana Scott  
Office Location: Allied Health Building, room 123  
Office Phone: 806-356-3616  
Home Phone: 806-353-6534 (please no calls after 10:00 p.m.)  
Campus E-mail address: scoft-dc@actx.edu  
Office Hours: Mondays, Wednesdays and Fridays 8:30 a.m. to 9:30 a.m.

Required Course Textbooks

See course Director for current publication being used

Students with Disabilities

Any student in this course who because of a disabling condition, may require some special arrangements in order to meet course requirements should contact the Office of Accessibility Services in the Student Service Center, room 125, phone: 371-5436, as soon as possible.

Attendance Policy

"Regular attendance is necessary for satisfactory achievement. Therefore, it is the responsibility of the student to attend class. The student will need to come to class on time, fully prepared for that session, with the necessary materials, including proper clinical or lab attire, if needed. You may have no more than 4 absences in this course without affecting your grade. 5 absences will lower your final grade average by 10 points.

Make-up Policy

Monday quizzes given during lecture sessions may NOT be made up. This quiz is given immediately after the lecture and only pertains to that particular lecture. It is the responsibility of the student to make arrangements with the course instructor regarding make-up work. This should be done immediately upon returning from the absence. Exams and competency assessments should be completed within TWO Amarillo College school days following the absences.

Grading Criteria

The final course grade will be calculated as follows:  
Monday lecture quizzes 20%
The following grade scale will be used for ALL Dentist Aide classes. A grade of "C" or higher is necessary for successful completion of this course.

<table>
<thead>
<tr>
<th>Grade Range</th>
<th>Letter Grade</th>
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<tbody>
<tr>
<td>100 to 90</td>
<td>A</td>
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<tr>
<td>89 to 80</td>
<td>B</td>
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<td>79 to 75</td>
<td>C</td>
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<td>74 to 70</td>
<td>D</td>
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<td>69 and below</td>
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**Required Examinations and Projects**

This course will consist of 7 lecture quizzes, 4 unit exams, and 1 final. The lecture quizzes are given immediately after a scheduled lecture. The quizzes give the instructor the criteria needed to assess the students comprehension of the covered material and helps the student to prepare for future examinations. Unit exams are given after the last phase of a scheduled unit is complete. All exams in this course will be written. One extra point may be added to the final grade by writing a 1 1/2 to 2 page research report. The report will be due the week before finals and will need to be over a topic approved by the course instructor.

**Course Ethics**

At Amarillo College, there are grave academic penalties for unethical conduct. The policy and penalty for such conduct is provided in the General Catalog as follows:

"A high standard of conduct is expected of all students. It is assumed that obedience to the law, respect for properly constituted authority, personal honor, integrity and common sense will guide the actions of each member of the college community both in and out of the classroom. The student code of conduct is published in the Students Rights and Responsibilities publication. Any student who fails to perform according to expected standards may be disciplined."

It can be concluded from this statement that cheating and other forms of unethical conduct are absolutely forbidden by Amarillo College policy. Any form of unethical conduct in this course will result in a final grade of "F", regardless of any other grades earned. This policy will be strictly enforced.

**Electronic and Recording Devices**

All electronic devices such as cell phones or beepers/pagers are prohibited in this course. No tape recordings of the lecture sessions are permitted. Reading the
assigned material prior to class and taking notes during the lecture will assure proper coverage of material for preparation for quizzes and exams.

**Student Grievance Procedure**

A student who has a problem with the course instructor should make every attempt to resolve the problem with the course instructor first. If that is not successful, the student may appeal the decision of the instructor to the Program Director, then the Chairman of Allied Health Division, then the dean of Instruction, and then the President ... IN THAT ORDER. Please refer to the **Students Rights and Responsibilities** publication for procedures to follow for grievances of a general nature, an academic nature, or regarding discrimination.

**Tentative Course Schedule**

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<tr>
<th>DENTAL MATERIALS</th>
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<td><strong>Week One</strong></td>
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<td><strong>Week Fourteen</strong></td>
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<td><strong>Week Fifteen</strong></td>
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<td><strong>Finals week 12/10-</strong></td>
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Verification of Course Policy

1, ____________________________, verify that I have received the Dental Materials, DNTA 1301, course syllabus. I have read and understand the course and department policies contained in the syllabus as they have been explained to me. I agree to abide by the policies and course requirements documented in the syllabus.

__________________________________________  __________________________
( student signature)                      (date)

__________________________________________  __________________________
(faculty signature)                       (date)