Prerequisites

None

Course Description

An introduction to anatomical systems with emphasis placed on head and neck anatomy. The supporting oral structures, embryology of the teeth, and tooth nomenclature are covered. Topics include the physiology and morphology of the deciduous and the permanent teeth along with basic terminology. (3 sem hrs; 2 lec, 2 lab).

Statement of Purpose

Basic dental science is comprised of several different, yet related areas. It includes oral health, basic head and neck anatomy, embryology, histology, tooth morphology and dental charting. The dentist aide must have knowledge in all these areas to provide optimum patient care and to assist the dentist with recordings and charting into the patient’s legal records. Terms in this course are the building blocks for the terminology used in the dental office.

Student Performance Goals

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

1. Learn the basic terminology, facts, theories, methods and other principals associated with basic dental science as outlined in the course syllabus.
2. Apply the knowledge learned to concrete or particular situations in a clinical setting.
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 evaluated by course instructor, a final grade of "C" or greater is earned.
Course Content Objectives

1. Explain the dental concerns related to the reproductive system.
2. Explain the functions of the digestive system.
3. List the functions of the immune system.
4. List and identify the muscles of mastication, floor of mouth, tongue, throat, neck and shoulders.
5. List the major bones of the head.
6. Identify the terms and times of the three prenatal phases of pregnancy.
7. Identify the substances of enamel, dentin, cementum, and pulp.
8. Describe the life cycle of the tooth.
9. Identify the dental arches and quadrants.
10. List the primary and permanent teeth by name and location in the mouth.
11. Explain the eruption schedule for primary teeth.
12. Identify the surfaces of the teeth.
13. Define the Black’s six classifications of cavities.
14. Describe the colors used in charting and the symbols.
15. Identify how the body fights disease.

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. There will be verbal role playing as well. 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 be asked to role play in a clinical setting that will require them to evaluate a situation and take appropriate action. The student will also formulate the information presented in this course and assimilate the information in order to answer questions that will be in the form of exams.
and or quizzes. Such questions will require the student to make logical decisions.

5. PERSONAL QUALITIES

The student will be expected to take all exams and quizzes independently.

Course Meeting Days and Times

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Tuesdays and Thursdays 1:00 to 2:00, Allied Health Building Room 100B</th>
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</thead>
<tbody>
<tr>
<td>Laboratory</td>
<td>Tuesdays and Thursdays 2:00 to 3:00, Allied Health Building, Room 100B</td>
</tr>
</tbody>
</table>

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

1. 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."
Due to the amount of information contained in this course, the student who plans to succeed should attend all course sessions regularly and promptly. The student will need to come to class on time, fully prepared for that session, with the necessary materials, including proper lab or clinical 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

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, demonstrations and competency assessments should be made up within TWO Amarillo College school days following the absence.

Grading Criteria

The final course grade will be calculated as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Chapter Exams</td>
<td>60%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>40%</td>
</tr>
</tbody>
</table>

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.

- 100 to 90: A
- 89 to 80: B
- 79 to 75: C
- 74 to 70: D
- 69 below: F

Required Examinations and Projects

This course will consist of 6 chapter exams, and 1 final. Chapter exams immediately follow the completion of that particular chapter work. The chapter exams may consist of written questions or practical demonstrations or a mix of both. The end of course final will be comprehensive. One extra point may be added to the final score by writing a 1 1/2 to 2 page research report in advance. The report will be due one week before finals and the subject needs the course instructors approval.

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 beeper/pagers are prohibited in this course. No tape recordings of the lecture or lab sessions are permitted. Reading the assigned chapters prior to class and taking notes during 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 the 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**

*See attached schedule*
DNTA 1311
Dental Science

Verification of Course Policy

1, ______________________________, verify that I have received the Dental Science, DNTA 1311, 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)