

COURSE & NUMBER DA 60
FULL TITLE Applied Dental Science
SEMESTER FALL 2023

COURSE DESCRIPTION

The study of dental terminology, basic anatomy of the oral cavity, dental anatomy and physiology, tooth morphology, classifications of cavities and charting conditions of the teeth. The content of this course will be taught through a combined lecture and laboratory experience. Emphasis is placed on intraoral and extraoral landmarks, restorative charting, and tooth morphology.

UNITS 2
CONTACT HOURS 1 Lecture & 3 Laboratory
WEEKS 17.5

DAYS & TIMES Friday Lecture: 11:00 AM - 12:00 PM
Friday Lab: 8:00 AM - 11:00 AM OR 1:00 PM - 4:00 PM
For Lecture & Lab - Meet in Room #4024

RECOMMENDED ADVISORIES None
PREREQUISITES/COREQUISITES Course completion or current enrollment in DE 51.

INSTRUCTOR Dino Kalfos, RDA, RDH, B.S.
Race Building Room #4024
E-Mail: dkalfos@santarosa.edu

Electronic communication will be conducted through email addresses registered with the school.

OFFICE HOURS In Person: Friday 7:30 AM - 8:00 AM
Online: By Appointment

REQUIRED TEXTBOOKS **Modern Dental Assisting, 13th Ed.**
Bird and Robinson (2021).
Modern Dental Assisting, Student Workbook 13th Ed.
Bird and Robinson (2021).

LECTURE MATERIALS: All lecture materials are found on SRJC CANVAS website.

ONLINE MATERIALS: A CANVAS online site for this class will be utilized for this class. Students are responsible for checking the site daily for announcements and helpful supplemental materials. Students must also maintain a valid e-mail address with the College so that communications issued through this site are received.

OUTCOMES AND OBJECTIVES

Student Learning Outcomes:

Upon completion of the course, students will be able to:

1. Utilize anatomical terms to describe dental anatomy, tooth morphology, structure of the oral cavity, dental anatomy and physiology, tooth morphology, structure of the oral cavity, and regions of the head and neck.
2. Integrate the knowledge of dental anatomy, tooth morphology, primary and permanent dentition and oral cavity structure into clinical practice.

TOPIC OBJECTIVES

Upon completion of this course, the student will be able to:

1. Describe the embryological development of the teeth, face, and oral cavity.
2. Classify the bones and major anatomic landmarks of the skull.
3. Describe the histology of bone in terms of cartilage, compact bone, spongy bone, and the periosteum.
4. List the structures and describe the action of the temporomandibular joint (TMJ).
5. Name the four pairs of paranasal sinuses and correlate their functions and physiology to dental maladies.
6. Locate and describe the function of the salivary glands.
7. Identify and differentiate the major anatomic landmarks of the oral cavity.
8. Locate and describe the different oral tissues.
9. Describe and assess the characteristics of normal gingival tissue.
10. Identify and discuss developmental abnormalities.
11. Identify and differentiate the 4 types of teeth and describe their design, function, and landmarks of each type.
12. Compare and examine the dental arches.
13. Utilize the three tooth numbering systems and cavity classifications to chart existing restorations, dental caries, missing teeth, and dental anomalies.
14. Compare the primary and permanent dentition in terms of size, shape, and number.
15. Perform a periodontal charting.

CONTENT, TOPICS AND SCOPE

** = These items are introduced in lecture, and the related skill is performed in the lab.*

1. Primary and Permanent Dentition
 - A. Eruption*
 - B. Tooth Numbering*
 - C. Parts of the Tooth*
 - D. Functions*
2. Dental Tissues
 - A. Properties
 - B. Maturation
 - C. Microscopic Features
 - D. Age Changes*
 - E. Fiber Groups
 - F. Clinical Considerations*
3. Anterior Teeth
 - A. Anatomy*
 - B. Root Morphology*
 - C. Anomalies*
4. Posterior Teeth
 - A. Anatomy*
 - B. Root Morphology*
 - C. Anomalies*
5. Primary Teeth
 - A. Anatomy*
 - B. Root Morphology*
 - C. Anomalies*
6. Dental Documentation
 - A. Black's Cavity Classifications*
 - B. Symbols and Abbreviations*
7. Occlusion
 - A. Malocclusion*
 - B. Habits and Skeletal Considerations*
8. Intraoral Structures
 - A. Basic Tissues*
 - B. Boundaries of the Oral Cavity*
 - C. Terminology*
 - D. Landmark Identification*

- E. Proper Selection of Topical Application Sites*
- 9. Extraoral Structures
 - A. Spatial Orientation*
 - B. Facial and Cranial Bones*
 - C. Nose and Paranasal Sinuses*
 - D. Landmark Identification*

ASSIGNMENTS

Lecture Related Assignments:

1. Reading assignments (10-40 pages per week) in text
2. Workbook HW Assignments (10-15)
3. Quizzes (8-10)
4. Midterm and final written exams

Lab Related Assignments:

1. Lab Evaluations 10
2. Partner Documentation Assignment
3. Tooth Drawing Assignment
4. Midterm and final performance exams

METHODS OF INSTRUCTION

- In person lectures
- Posted course material on CANVAS
- Reading and Student Workbook assignments
- Active Student Learning Activities
- Laboratory/Clinical demonstrations and weekly lab/clinic assignments
- Criterion based testing

REQUIREMENTS AND GRADING INFORMATION

Lecture Requirements	Points
- Quizzes (20pts) x 9	180
- Workbook HW (10pts) x 12	120
- Midterm Exam	50
- Final Exam	100
Lecture Total: 450 points	

Laboratory Requirements	Points
- Lab Evaluations (20pts) x 10	200
- Tooth Drawing Assignment	50
- Partner Documentation Assignment	50
- Midterm Exam	50
- Final Exam	100
Laboratory Total: 450 points	

COMBINED LAB & LECTURE POINTS = 900 points

Grading Standard:	
93 - 100%	A
92 - 85%	B
84 - 75%	C
74 - 65%	D
64 - 0%	F

COURSE STANDARDS

- Students must achieve a minimum standard of 75% in each of the laboratory/clinical and lecture components. Failure to do so will result in a grade of "D" or lower in the course. Extra Credit cannot be used to raise a failing grade to a passing grade
- Any student with a disability (e.g. physical, learning, psychological, visual, hearing, etc.) who needs to arrange accommodations must contact the instructor and Disability Resources Department the first week of the semester, All testing arrangements must be made two weeks prior to the exams.
- Late Assignment Policy: Deadlines for assignments are important for time management for both student and instructor. Unless otherwise specified in class, all assignments are due on the date/time specified. Completing assignments is required, not optional. All work must be completed to receive credit for the course. Late assignments will be penalized 20% for each day it is late. This will be monitored on Canvas. This refers to all days (Sunday-Saturday), not just days we meet for class. Make certain when uploading onto Canvas you are doing so under the correct assignment and in the correct format. Uploading errors are not considered reasons to

accept a late assignment. Assignments that use document format links need to be compatible with Canvas and if Professor Kalfos cannot view the assignment, it will be considered missing.

- There will be no make-up quizzes – you must be on time and attend the entire class to be entitled to take the quiz – if you are late you will have to finish your quiz with the rest of the class.
- If you are absent, e-mail or call the instructor prior to class.
- Professional, self-motivated and cooperative behavior is expected.

STUDENT EXPECTATIONS:**PROFESSIONALISM & ETHICAL CONDUCT**

Santa Rosa Junior College's Dental Assisting Program believes that professionalism is an essential component to the development of a health care provider. Our program strives to nurture and develop strong levels of professional behavior. All dental assisting students are expected to demonstrate professionalism in behavior, communication, patient privacy and judgment in the dental clinics, classrooms, and clinical rotation sites. All clinical and classroom faculty will offer feedback for this development by formal and informal means. Repetitive instances of non-professional behavior or speech at any time during matriculation in the program will not be tolerated and may result in program dismissal. A review of expectations and criteria for Professionalism is found in the [Dental Assisting Policy Manual](#).

INSTRUCTOR ASSISTANCE: All students are encouraged to seek assistance from the course instructor. If you have any questions concerning assignments, content, etc., or if a problem arises that warrants instructor help, please do not hesitate to schedule an appointment with the instructor at your earliest convenience.

GETTING THE HELP THAT YOU NEED IS YOUR RESPONSIBILITY

REMEDIATION: Any student achieving less than 75% on a quiz is required to arrange a meeting with the instructor to discuss deficiencies in their grade and arrange potential remediation.

QUALITY ASSURANCE: Refer to the Quality Assurance plan found in your [Dental Assisting Policy Manual](#) to determine the assurances designed to ensure that the dental program adheres to the standards of care.

CONFIDENTIALITY & HIPAA STATEMENT: As a student at SRJC Dental Program, you have a legal and ethical responsibility to safeguard the privacy of all patients and protect confidentiality and security of all health information. Protecting the confidentiality of patient information means protecting it from unauthorized use or disclosure in any format oral, FAX, written or electronic. Patient

confidentiality is a central obligation of patient care. Any breaches in patient confidentiality or privacy may result in disciplinary action, up to and including dismissal from the program.

STUDENT HANDBOOK AGREEMENT: It is the responsibility of all students enrolled in the dental assisting program to read and comply with all policies found in the [Dental Assisting Policy Manual](#). Failure to do so may result in dismissal from the program.

ACADEMIC & ATTENDANCE POLICY: Students are expected to attend all sessions of the course in which they are enrolled. Students are expected to be prepared to begin class on time. A student may be dropped from the class when that student's absences exceed 10% of the total hours of class time; no more than 4 hours of lecture or lab sessions. Please refer to the [Dental Assisting Policy Manual](#) for additional information.

TARDINESS: (Including leaving early) Please refer to the [Dental Assisting Policy Manual](#) for this information.

DISABILITY RESOURCE DEPARTMENT: Please refer to the [Dental Assisting Policy Manual](#) for this information.

EMERGENCY EVACUATION PLAN: Please refer to the [Dental Assisting Policy Manual](#) for this information.

TECHNOLOGY & SOCIAL MEDIA POLICIES: Please refer to the [Dental Assisting Policy Manual](#) for this information.

AI INTEGRATION GUIDELINES: (Used only with instructor permission) Students may use AI tools for research, analysis, and other academic tasks, provided that they have obtained explicit permission from the instructor for each specific instance of AI usage. While AI can be a powerful ally, the primary responsibility for understanding and applying course material remains with you. AI usage can not replace critical thinking, analysis, and learning efforts. Just as with any other scholarly resource, proper citation is crucial when referencing AI-generated content or utilizing AI tools. Clearly indicate when AI has been used to assist in your work (when allowed) to ensure the integrity of your academic contributions. While AI tools can aid in research and content generation, it is your responsibility to ensure that the work you submit is original and properly attributed. Plagiarism, whether AI-assisted or not, is a breach of academic integrity and will be treated accordingly.

ACADEMIC INTEGRITY STATEMENT: Sonoma County Junior College District holds that its primary function is the development of intellectual curiosity, integrity, and accomplishment in an atmosphere that upholds the principles of academic freedom. All members of the academic community—student, faculty, staff, and administrator—must assume responsibility for providing an environment of the highest standards, characterized by a spirit of academic honesty and mutual respect. Because personal accountability is inherent in an academic community of integrity, this institution will not tolerate or ignore any form of academic dishonesty. Policy 3.11 Revised July 2012

ACADEMIC GRIEVANCES: Please refer to the [Dental Assisting Policy Manual](#) for this information.

PROFESSIONALISM CRITERIA: Please refer to the [Dental Assisting Policy Manual](#) for this information.

DISCRIMINATION & SEXUAL HARASSMENT POLICY: Please refer to the [Dental Assisting Policy Manual](#) for this information.

DISMISSAL POLICY: Please refer to the [Dental Assisting Policy Manual](#) for this information.

AGREEMENT WITH STUDENTS

This syllabus is an agreement, continued registration in this course means that you agree to the policies and procedures outlined in this syllabus. The syllabus is intended to give the student guidance in what may be covered during the semester and will be followed as closely as possible. However, the instructor reserves the right to modify, supplement and make changes as the course needs arise.