



Department of Teaching & Learning
Parent/Student Course Information

Dental Assisting I
(VO 8328)
Three Credits, One Year
Grade 11

Counselors are available to assist parents and students with course selections and career planning. Parents may arrange to meet with the counselor by calling the school's guidance department.

COURSE DESCRIPTION

Dental Assisting is a 2-year program for rising 11th graders. Dental Assisting I is the first year in the sequence. Students are introduced to the careers in dentistry, including dentist, dental hygienist, dental assistant, dental laboratory technician and dental receptionist. Students practice and learn about many of the skills utilized in these professions while attaining all the skills necessary to become a dental assistant. Study includes infection control and OSHA standards, anatomy and physiology, tooth morphology, oral histology, preventive dentistry, applied psychology, effective communication, office administration and management, use of dental software, operative dentistry techniques and dental materials/laboratory skills.

CERTIFICATION

None

STUDENT ORGANIZATION

Future Health Professionals (HOSA)

The mission of HOSA is to enhance the delivery of compassionate, quality health care by providing opportunities for knowledge, skill and leadership development of all health occupations education students, therefore, helping the students to meet the needs of the health care industry.

PREREQUISITE

None

OPTIONS FOR NEXT COURSE

Dental Assisting II

REQUIRED STUDENT TEXTBOOK

Dental Assisting: A Comprehensive Approach, 2014

COMPETENCIES FOR DENTAL ASSISTING I

Demonstrating Workplace Readiness Skills: Personal Qualities and People Skills

- 1 Demonstrate positive work ethic.
- 2 Demonstrate integrity.
- 3 Demonstrate teamwork skills.
- 4 Demonstrate self-representation skills.
- 5 Demonstrate diversity awareness.
- 6 Demonstrate conflict-resolution skills.
- 7 Demonstrate creativity and resourcefulness.

Demonstrating Workplace Readiness Skills: Professional Knowledge and Skills

- 8 Demonstrate effective speaking and listening skills.
- 9 Demonstrate effective reading and writing skills.
- 10 Demonstrate critical-thinking and problem-solving skills.
- 11 Demonstrate healthy behaviors and safety skills.
- 12 Demonstrate an understanding of workplace organizations, systems and climates.
- 13 Demonstrate lifelong-learning skills.
- 14 Demonstrate job-acquisition and advancement skills.
- 15 Demonstrate time-, task- and resource-management skills.
- 16 Demonstrate job-specific mathematics skills.
- 17 Demonstrate customer-service skills.

Demonstrating Workplace Readiness Skills: Technology Knowledge and Skills

- 18 Demonstrate proficiency with technologies common to a specific occupation.
- 19 Demonstrate information technology skills.
- 20 Demonstrate an understanding of Internet use and security issues.
- 21 Demonstrate telecommunications skills.

Examining All Aspects of an Industry

- 22 Examine aspects of planning within an industry/organization.
- 23 Examine aspects of management within an industry/organization.
- 24 Examine aspects of financial responsibility within an industry/organization.
- 25 Examine technical and production skills required of workers within an industry/organization.
- 26 Examine principles of technology that underlie an industry/organization.
- 27 Examine labor issues related to an industry/organization.
- 28 Examine community issues related to an industry/organization.
- 29 Examine health, safety and environmental issues related to an industry/organization.

Addressing Elements of Student Life

- 30 Identify the purposes and goals of the student organization.
- 31 Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult.
- 32 Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects.
- 33 Identify Internet safety issues and procedures for complying with acceptable use standards.

Introducing Dentistry and the Dental Team

- 34 Trace the development of dentistry from early civilizations to the present, including educational and professional developments in America.
- 35 List the members of a dental team and the characteristics, educational requirements and responsibilities of each.
- 36 Describe the roles of professional dental organizations.

Investigating Dental Ethics and the Law

- 37 Examine ethical and legal issues related to the practice of dentistry.
- 38 Identify the American Dental Assistants Association (ADAA) principles of ethics and Code of Professional Conduct.
- 39 Describe the role of the state Dental Practice Act as it relates to the practice of dentistry.
- 40 Explain confidentiality and its connection to the Health Insurance Portability and Accountability Act (HIPAA).

Examining Basic Dental-Related Anatomy and Physiology

- 41 Identify anatomical reference systems.
- 42 Identify the bones and major anatomic landmarks of the skull.
- 43 Describe the bone structure of cartilage, compact bone, spongy bone and periosteum.
- 44 Describe the gliding hinge action of the temporomandibular joint (TMJ).
- 45 Identify the major muscles of mastication and facial expressions, the extrinsic muscles of the tongue and the major posterior muscles of the mouth, including the floor of the mouth.
- 46 Identify the major veins, arteries and nerves of the face and mouth.
- 47 Identify the major anatomic landmarks of the oral cavity.
- 48 Identify salivary glands and their ducts.
- 49 Explain the anatomy and physiology of body systems and their relationship to dentistry.

Describing Dental Anatomy

- 50 Explain oral embryology and the histology of dentition.
- 51 Explain developmental disturbances that may occur during tooth development.
- 52 Identify the eruption order for the primary and permanent dentition.
- 53 Explain the specialized function and classification of the four types of teeth.
- 54 Describe anatomical features of teeth.
- 55 Identify tooth surfaces.
- 56 Identify teeth, using the Universal, FDI and Palmer numbering systems.

Recording Patient Information and Assessment

- 57 Demonstrate compliance with the privacy policy of the Health Insurance Portability and Accountability Act (HIPAA) when recording patient information.
- 58 Gather and record personal information about the patient.
- 59 Update medical and dental history.
- 60 Explain the meaning and importance of "informed consent."
- 61 Identify the standards and criteria for patient-record entries.
- 62 Obtain and record vital signs and observations.
- 63 Chart initial findings, and list recommended treatment.
- 64 Record treatment rendered.
- 65 Obtain intraoral and extraoral images.

Examining Preventive Dentistry and Nutrition

- 66 Describe how dental decay occurs and the role of cariogenic food in dental caries.
- 67 Identify the methods of detecting decay.

- 68 Describe systemic conditions associated with periodontal disease.
- 69 Identify risk factors for periodontal disease.
- 70 Demonstrate the components of preventive dentistry.
- 71 Describe the roles of systemic and topical fluorides.
- 72 Identify key nutrients.
- 73 Establish a diet for dental health maintenance.

Performing Administrative Functions

- 74 Greet patient.
- 75 Manage records.

Performing Infection-Control Techniques

- 76 Describe the major groups of microorganisms that cause disease.
- 77 Describe the types of diseases caused by microorganisms.
- 78 Describe ways diseases are transmitted in the dental treatment environment.
- 79 Explain maintenance of aseptic chain in the dental treatment environment through sterilization, disinfection, and barrier techniques.
- 80 Demonstrate compliance with governmental regulations and guidelines, including those of OSHA, EPA and CDC, regarding infection control and disease prevention.
- 81 Disinfect and/or sterilize dental instruments.
- 82 Demonstrate maintenance and sterilization of dental hand pieces.
- 83 Demonstrate maintenance of the evacuation system.
- 84 Demonstrate maintenance of dental disinfecting/sterilization equipment, including renewal of solutions.
- 85 Explain maintenance of the dental unit waterline (DUWL).

Managing Hazardous Chemicals and Waste

- 86 Identify methods of protection against exposure to hazardous chemicals.
- 87 Comply with the OSHA Hazardous Communications Standard.
- 88 Describe the classification of waste.
- 89 Demonstrate compliance with governmental regulations regarding management of hazardous chemicals and waste.

Assisting with Basic Pharmacology and Pain Control

- 90 Explain pharmacology terms.
- 91 Explain the types of anesthesia used in dentistry.
- 92 Demonstrate assisting in the administration of local anesthesia.
- 93 Document the administration of anesthesia and pain control.

Meeting the Needs of the Special Patient

- 94 Describe the management of the special patient during dental procedures.
- 95 Determine the fearful patient's physical and emotional needs in order to alleviate anxiety.
- 96 Describe considerations connected with treating various special patients.

Demonstrating Chairside Procedures

- 97 Seat and position patient.
- 98 Dismiss patient.
- 99 Demonstrate proper ergonomics in the dental setting.
- 100 Pass and retrieve instruments at chairside.
- 101 Demonstrate maintenance of a clear field.
- 102 Perform oral evacuation.

- 103 Prepare basic operatory setup.
- 104 Prepare dental dam equipment and materials for use.
- 105 Perform a preventive dentistry treatment.

Aaron C. Spence, Ed.D., Superintendent
Virginia Beach City Public Schools
2512 George Mason Drive, Virginia Beach, VA 23456-0038

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For further information please call (757) 263-1070.

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To seek resolution of grievances resulting from alleged discrimination or to report violations of these policies, please contact the Title VI/Title IX Coordinator/Director of Student Leadership at (757) 263-2020, 1413 Laskin Road, Virginia Beach, Virginia, 23451 (for student complaints) or the Section 504/ADA Coordinator/Chief Human Resources Officer at (757) 263-1133, 2512 George Mason Drive, Municipal Center, Building 6, Virginia Beach, Virginia, 23456 (for employees or other citizens). Concerns about the application of Section 504 of the Rehabilitation Act should be addressed to the Section 504 Coordinator/ Executive Director of Student Support Services at (757) 263-1980, 2512 George Mason Drive, Virginia Beach, Virginia, 23456 or the Section 504 Coordinator at the student's school. For students who are eligible or suspected of being eligible for special education or related services under IDEA, please contact the Office of Programs for Exceptional Children at (757) 263-2400, Laskin Road Annex, 1413 Laskin Road, Virginia Beach, Virginia, 23451.

Alternative formats of this publication which may include taped, Braille, or large print materials are available upon request for individuals with disabilities. Call or write The Department of Teaching and Learning, Virginia Beach City Public Schools, 2512 George Mason Drive, P.O. Box 6038, Virginia Beach, VA 23456-0038. Telephone 263-1070 (voice); fax 263-1424; 263-1240 (TDD) or email at Kathleen.Vuono@vbschools.com.

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CHARTING THE COURSE

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