

## CESTAR COLLEGE INTRA-ORAL LEVEL I & II DENTAL ASSISTANT PROGRAM

Course Code and Name	Course Description
<p><b>DEN 101</b></p> <p>Introduction to the Dental Assisting and Terminology</p> <p>25 Hrs</p>	<p>In this course, students are introduced to the profession of dental assisting, receiving an overview of the history of dentistry, professional organizations, ethics, and the role of the dental health team. Students are introduced to the treatment room, equipment, and basic safety requirements of the clinic. The application of OSHA and professional guidelines used in four-handed dentistry are emphasized. Students will also be introduced to a systematic study of dental terms for their professional training. The student will become proficient with prefixes, suffixes, and key words that formulate dental terms and the pronunciation of dental terms.</p>
<p><b>DEN 102</b></p> <p>Oral Facial Science</p> <p>75 Hrs</p>	<p>This course provides a comprehensive study of microscopic morphology of the head, neck and oral tissues, anatomy of the head and neck, including embryology and structures and functions of the human dentition and the study of general anatomy and physiology. Black's classifications and composition and classification of bones and tissues of the head and neck are also covered.</p>
<p><b>DEN 103</b></p> <p>Dental Materials and Safety</p> <p>50 Hrs</p>	<p>This course provides the theoretical applications of dental materials in the oral environment. From this knowledge base, students learn to understand the role of dental materials in the delivery of preventative and restorative care. Lectures will cover the physical and manipulative characteristics of the various dental products. An introduction to the proper handling of hazardous chemicals, employee safety, and waste management. Precautions and safe handling of dental laboratory materials will be presented through the use of Material Safety Data Sheets (MSDS). In addition, students will learn how to avoid Musculoskeletal disorders commonly associated with dental assisting.</p>
<p><b>DEN 104</b></p> <p>Dental Microbiology and Infection Control</p> <p>50 Hrs</p>	<p>This course introduces fundamental microbiology and infection control techniques. Topics include: classification, structure, and behavior of pathogenic microbes; mode of disease transmission; body's defense and immunity; infectious diseases; and infection control procedures. In clinic, the students will demonstrate effective infection-control techniques to prevent transmission in the dental setting.</p>
<p><b>DEN 105</b></p> <p>Dental Radiography Principles</p> <p>100 Hrs</p>	<p>This course introduces the student to the basic science of radiation including its discovery, history and modern use within the dental profession. Students are introduced to the equipment and supplies required for the various types of films and images that are utilized in the dental profession. The course will provide the student with the skill to critique x-rays that have been exposed, clarifying the cause and effect of various equipment and armamentaria adjustments. Patient management will include gaining patient cooperation using a variety of techniques used in the exposing of films intra and extra orally. Students will learn how to expose and process films. Students are expected to correctly mount radiographs using anatomical landmarks. Quality assurance and the As Low As Reasonably Acceptable (A.L.A.R.A.) principle are also addressed. Federal and Provincial Regulations dealing with radiation are addressed throughout the program.</p>
<p><b>DEN 106</b></p> <p>Introduction to Computers</p>	<p>This course, using both lecture and laboratory practice, introduces students to basic computer concepts in hardware, software, networking, computer security, programming, database, e-commerce, decision support systems, and other emerging technologies such as blogs, RSS, podcasting, cloud base and Google applications. Additional lectures examine social, legal, ethical issues including privacy, intellectual</p>

50 Hrs	property, health concerns, green computing, and accessibility. Students learn techniques to search, evaluate, validate, and cite information found online. Widely used applications including word processing, spreadsheets, databases, presentation, and web development software are studied.
<b>DEN 200</b> Preventative Dentistry 75 Hrs	In this course, students will be introduced to the principles and concepts of oral health promotion for the individual client. Techniques for and approaches to oral health education will be studied with a focus on interventions for the levels of prevention, theories of behavioral change and an introduction to health determinants essential to health. Importance is placed on communication skills and methods of assessing, implementing, and evaluating individualized hygiene. The nutritional aspects of oral health will also be studied with a focus on factors involved in oral problems and the nutritional treatment of those problems. Students will provide oral health care in a community setting.
<b>DEN 201</b> Principles of Dental Record Keeping 45 Hrs	This course will introduce the student to the numerous dental records, electronic charts and manual charts. The importance of diagnostic records and treatment planning will be examined. Emphasis will be placed on charting and record keeping. The significance of standards of practice, quality assurance, ethics will also be explored.
<b>DEN 202</b> Laboratory Procedures 50 Hrs	The study of dental laboratory procedures including skills associated with chairside assisting, pouring, trimming, polishing study casts, fabricating custom trays and whitening trays. It also includes skills in preliminary impressions and fabricating provisional restorations
<b>DEN 203</b> Oral Pathology 25 Hrs	This course has been designed to integrate oral pathology and general pathology. Students will study principles of general pathology with emphasis on the relationships to oral diseases. Pathologic physiology is included such as tissue regeneration, the inflammatory process, immunology and wound healing. Clinical appearance, etiology, location and treatment options of general system diseases are presented, along with the oral manifestations. Special attention will be placed on common pathological conditions of the oral cavity and early recognition of these conditions.
<b>DEN 204</b> Principles of Dental Assisting I Operative Dentistry 125 Hrs	Students will learn the theory elements of restorative dentistry. Emphasis is placed on the dental assistant's role in operative procedures and the importance of knowing the procedures, instrument and materials. They will also develop the skills and recognizing the importance of smooth interaction with the dentist providing quality care while working chairside for various procedures. The students will learn the practical element of restorative dentistry with emphasis placed on the dental assistant's role in operative procedures. It includes chairside assisting as well as the implementation of the dental materials used in dentistry.
<b>DEN 300</b> Principles of Dental Assisting II Dental Specialties 75 Hrs	This course is designed to provide an overview of the various dental specialties, including oral surgery, pediatric dentistry, endodontics, periodontics, prosthodontics and dental public health. The study of each specialty includes definition of the specialty, oral, health and disease conditions, laboratory techniques, instrumentation, materials used and the dental assistant's role in each specialty.

<b>DEN 301</b> Principles of Dentistry III Clinical Dental Specialties  25 Hrs	Focuses on chairside assisting with dental specialty procedures. Topics include: prosthodontic procedures (fixed and removable); orthodontics; pediatric dentistry; periodontic procedures; oral and maxillofacial surgery procedures; endodontics procedures; management of medically compromised patients.
<b>DEN 303</b> Dental Office Procedures  50 Hrs	This course emphasizes procedures for office management in dental practices and employability skills. Topics include: oral and written communications, records management in dentistry, appointment control, dental insurance form preparation and insurance coding, accounting procedures in dentistry, supply and inventory control, and operation of basic business equipment; a computer lab will provide skills in computer use and utilization of these skills to perform office procedures on a computer.
<b>DEN 304</b> Pharmacology and Medical Emergencies  50 Hrs	This course will introduce the student to safe administration and classification of drugs used in dentistry. Focus will be emphasized on common adverse reactions that can occur in drugs utilized with dental procedures. The student will also be introduced to common medical emergencies in the dental office. Preventive measures and management of these emergencies will be reviewed. Additionally, information on the basic physiology and pathophysiology occurring with common medical emergencies as well as variations in clinical signs will be presented.
<b>DEN 305</b> Practicum I  60 Hrs	Students will apply their theoretical knowledge to the practical setting under the supervision of a Dentist and the dental team.
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<b>DEN 400</b> Career Employment and Strategies  25 Hrs	This course provides students with knowledge of how to use communication skills to make a successful presentation to a prospective employer. Students also learn how to uncover the hidden job market and identify employment opportunities. Self-assessment during this course allows students to identify their personal skills that are transferable in the work place and to describe these skills to a prospective employer. Verbal and nonverbal communication techniques are discussed.
<b>DEN 401</b> Principles of Oral Care  60 Hrs	Students will apply the theory obtained in Preventive Dentistry in the clinical setting demonstrating communication skills and methods of assessing, implementing and evaluating individualized hygiene.
<b>DEN 402</b> Pre-Patient Care  45 Hrs	This course will provide the students with the opportunity to perform Intra Oral Dental Assistant skills on fellow classmates. An ethical decision making framework will enable the students to utilize problem-solving skills to plan for and manage direct patient care and to respond to patient specific needs as they relate to the

	clinical practice on an Intra Oral Dental Assistant. Students must be deemed competent prior to external patient care.
<b>DEN 403</b> Patient Care 75 Hrs	This course will provide the students with the skills required by an Intra Oral Dental Assistant to perform direct patient care. An ethical decision-making framework will enable the students to utilize problem-solving skills to plan for and manage direct patient care and to respond to patient specific needs as they relate to the clinical practice on an Intra Oral Dental Assistant. In-house clinic will provide an environment for students to apply and adapt the knowledge and skills obtained throughout the program.
<b>DEN 407</b> Practicum II 60 Hrs	Students will apply their theoretical knowledge to the practical setting under the supervision of a Dentist and the dental team. Level I skills will be practiced.
<b>Total Hrs: 700</b>	