

Department of Dental and Oral Health

Program Information

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| Instructional Level | Two-Year Technical Diploma |
| Instructional Area | Dental |
| Program Manager | Dental and Oral Health Department |
| Original Developer(s) | Nourah Al-Ajmy , Waheeda Al-Mayyan , Suad Al-Kamis |

Target Population

Female student from high school , Kuwaiti nationalities, and not younger than 18 years old (non Kuwaitis have at least one year experience)

Description

Dental assistant technician is a member of dental health care providers. The dental assistant program prepares graduates to work with dentists as they examine and treat dental clients. Dental assistant technician also may carryout variety of laboratory, clinical and office duties. Graduate works primarily under the direct supervision of the dentist.

Career/Job Titles

1. Dental Assisting Technician

Related DACUM Studies

DACUM Title Dental Assistant

Entry Requirements

1. High school grade of 65% (science)
2. Pass personal interview

Evaluation Summary

This program will be evaluated after five years from implementation

External Standards

1. American Dental Association
2. American Dental Education Association
3. American Dental Assistant Association

Program Outcomes

1. Collect diagnostic and treatment data
2. Manage infection and hazard control
3. Perform clinical supportive treatments
4. Take diagnostic radiographs
5. Perform dental laboratory procedures
6. Provide patient oral health instruction
7. Assist in managing medical emergencies
8. Model professional behaviors, ethics, and appearance
9. Carry out dental office procedures

Core Abilities

1. PROFESSIONAL AND PERSONAL ETHICS- Apply a collection of generally accepted ethical standards for "right conduct" in both personal and professional areas
2. TEAMWORK- Work effectively and cooperatively in a group setting
3. STRESS MANAGEMENT- Manage stress in appropriate ways
4. Act responsibly
5. STRESS MANAGEMENT- Manage stress in appropriate ways
6. Work cooperatively and efficiently
7. Communicate effectively
8. Think critically and creatively
9. PERSONAL DEVELOPMENT: Demonstrate self-management through practices that promote physical, mental, and spiritual well-being and encourage lifelong learning opportunities.
10. TIME MANAGEMENT- Organize activities to accomplish desired tasks in time available

Course Configuration

| Semester /Year | Course # | Course Title | Credits | Total Contact Hrs | Category |
|----------------|----------|---|---------|-------------------|-------------------------------|
| 1/1 | DA 102 | Introduction to Dentistry | 2 | 45 | Core Course |
| 1/1 | AMS 155 | Anatomy and Physiology | 3 | 60 | Core Course |
| 1/1 | DA 101 | Clinical Practice and Instrumentation I | 3 | 60 | Core Course |
| 1/1 | CS 108 | Introduction To Computer Science | 3 | 60 | Core Course |
| 1/1 | EL 101 | English 1 | 2 | 45 | General Education Requirement |
| 1/1 | NSC 155 | Microbiology | 3 | 60 | Core Course |
| | | Total | 16 | | |
| 2/1 | DA 113 | Dental Radiology | 3 | 75 | Core Course |
| 2/1 | DA 112 | Dental Material I | 3 | 75 | Core Course |
| 2/1 | SS 101 | Islamic Education | 2 | 30 | General Education Requirement |
| 2/1 | DA 111 | Clinical Practice and Instrumentation II | 3 | 135 | Core Course |
| 2/1 | DA 114 | Management of Dental Office | 2 | 30 | Core Course |
| 2/1 | DA 115 | Infection Control in Dentistry | 2 | 30 | Core Course |
| 2/1 | AMS 254 | Anatomy of Head And Neck | 3 | 60 | Core Course |
| | | Total | 18 | | |
| 1/2 | DA 201 | Clinical Practice and Instrumentation III | 4 | 240 | Core Course |
| 1/2 | DA 205 | Community Dental Health | 2 | 45 | Core Course |
| 1/2 | DA 202 | Dental Material II | 3 | 60 | Core Course |
| 1/2 | DA 203 | Oral Pathology and Histology | 2 | 30 | Core Course |
| 1/2 | DA 204 | Medical Emergencies in Dentistry | 3 | 60 | Core Course |

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|-----|--------|--|-----------|-----|-------------------------------|
| 1/2 | SS 112 | Work Ethics and Loyalty | 3 | 45 | General Education Requirement |
| | | Total | 17 | | |
| 2/2 | DA 211 | Clinical Practice and Instrumentation IV | 5 | 300 | Core Course |
| 2/2 | DA 212 | Oral Health Education | 2 | 45 | Core Course |
| 2/2 | PH 116 | Oral Pharmacology | 2 | 45 | Core Course |
| 2/2 | SP 455 | Communication Psychology | 2 | 30 | Core Course |
| 2/2 | | Elective | 2 | 30 | Elective |
| 2/2 | | Elective | 2 | 30 | Elective |
| | | Total | 15 | | |
| 1/3 | DA 221 | Summer Training | 3 | 450 | Core Course |
| | | Total | 3 | 450 | |
| | | Total Graduation | 69 | | |

Program Course Detail

Course 1. -- Introduction to Dentistry

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|---------------------------|--|
| Course Number | DA 102 |
| Course Title | Introduction to Dentistry |
| Semester/Year | 1/1 |
| Credits | 2 |
| Contact Hours | 3 |
| Total Hours | 45 |
| Category | Core Course |
| Required | Yes |
| Course Description | This course is designed to introduce the dental assisting students to the science of dentistry and the profession of dental assistant. |

Course 2. -- Anatomy and Physiology

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|---------------------------|--|
| Course Number | AMS 122 |
| Course Title | Anatomy and Physiology |
| Semester/Year | 1/1 |
| Credits | 3 |
| Contact Hours | 4 |
| Total Hours | 60 |
| Category | Core Course |
| Required | Yes |
| Course Description | This course is designed to introduce student to the structure and organization of various systems in the human body. It deals with the structure and function of the musculoskeletal system, nervous system, circulatory system, blood, digestive system, urinary system, and endocrine and reproductive system. Using a body system approach, the course emphasize the interrelationship between structure and function at the gross and microscopic levels of organization of the entire human body. |

Course 3. -- Clinical Practice and Instrumentation I

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|---------------------------|--|
| Course Number | DA 101 |
| Course Title | Clinical Practice and Instrumentation I |
| Semester/Year | 1/1 |
| Credits | 3 |
| Contact Hours | 4 |
| Total Hours | 60 |
| Category | Core Course |
| Required | Yes |
| Course Description | The students will be familiar with the instruments and equipments used in dental field. Also this course provides the students with basic theoretical and clinical information necessary in dental assistant practice. |

Course 4. -- Introduction To Computer Science

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|---------------------------|--|
| Course Number | CS 108 |
| Course Title | Introduction To Computer Science |
| Credits | 3 |
| Contact Hours | 4 |
| Total Hours | 60 |
| Category | Core Course |
| Required | Yes |
| Course Description | This course will survey the field of computer technology and information systems. You will acquire a basic understanding of how computers process information through the integrated use of hardware and software. Computer laboratory sessions will introduce students to a variety of software packages that will include word processing, spreadsheets, graphics, communications, and database management functions |

Course 5. -- English Language

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|---------------------------|---|
| Course Number | EL 101 |
| Course Title | English Language |
| Credits | 2 |
| Contact Hours | 2 |
| Total Hours | 30 |
| Category | General Education Requirement |
| Required | Yes |
| Course Description | This course is a critical reading for special purposes and expository writing offers training in the writing process, the development and organization of expository prose, and research techniques. The course emphasizes quality in logic and direction |

Course 6. -- Microbiology

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|----------------------|--------------|
| Course Number | NSC 155 |
| Course Title | Microbiology |
| Semester/Year | 1/1 |
| Credits | 3 |
| Contact Hours | 3 |
| Total Hours | 45 |
| Category | Core Course |
| Required | |

Yes

Course Description This course will introduce the morphology, physiology, and taxonomy of microorganisms and how they relate to man and the environment as well as new developments in the field of microbiology and what influences they will have in the future.

Course 7. -- Dental Radiology

Course Number DA 113
Course Title Dental Radiology
Semester/Year 2/1
Credits 3
Contact Hours 5
Total Hours 75
Category Core Course
Required Yes

Course Description This, course is designed to introduce the students to the science of radiology. It will explain the basic concepts of the x-ray image formation.. and will give the student the access to the new techniques of x-ray. In addition, it will enable the students to differentiate between t anatomical landmark and pathological defects that are found in both the maxillary and mandibular arches of the oral cavity

Course 8. -- Dental Material I

Course Number DA 112
Course Title Dental Material I
Semester/Year 2/1
Credits 3
Contact Hours 5
Total Hours 75
Category Core Course
Required Yes

Course Description A study of the clinical application of dental materials. and their relationship to the oral environment is essential for the dental assistant. This course is designed to provide the dental assistant with a sound knowledge base in the science of dental materials. Emphasis will be placed on why specific material is used rather solely upon the techniques of manipulating materials. Objectives will be equally balanced among .the cognitive, psychomotor, and affective domains of learning and within the dental assistant scope of practice. A primary objective of this course is to enhance the student's ability to make clinical judgments regarding the application of dental materials and the ways in which these materials react to the oral environment.

Course 9. -- Islamic Education

Course Number SS 101
Course Title Islamic Education
Semester/Year 2/1

Credits 2
Contact Hours 2
Total Hours 30
Category General Education Requirement
Required Yes

Course Description This course will introduce the main concepts of Islam as a comprehensive way of life, covering all aspects that human beings are in need for and focusing on the major rulings of Islamic faith and Prayers.

Course 10. -- Clinical Practice and Instrumentation II

Course Number DA 111
Course Title Clinical Practice and Instrumentation II
Semester/Year 2/1
Credits 3
Contact Hours 9
Total Hours 135
Category Core Course
Required Yes

Course Description A comprehensive course designed to acquaint the student with the many aspects of assisting at chair-side in the treatment of dental patients. Among the areas included are: patients Management techniques; taking and recording medical and dental histories; vital signs; performing and assisting with clinical-examinations and charting; assisting with local anesthesia and all areas of dental treatment, also operating and maintaining dental equipment and sterilization.

Course 11. -- Management of Dental Office

Course Number DA 114
Course Title Management of Dental Office
Semester/Year 2/1
Credits 2
Contact Hours 2
Total Hours 30
Category Core Course
Required Yes

Course Description This course is designed to provide students with a comprehensive overview of the dental business. Emphasis is on practice management, communication management, business office systems, and interview techniques.

Course 12. -- Infection Control in Dentistry

Course Number DA 115
Course Title Infection Control in Dentistry
Semester/Year 2/1
Credits 2

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| Contact Hours | 2 |
| Total Hours | 30 |
| Category | Core Course |
| Required | Yes |
| Course Description | This course is designed to give the student an overview of the microbiological burden encountered in the dental office, the philosophy of infection control in dentistry, and the methods of protecting. Both patient and staff. In addition, current concepts of occupational safety and health risks encountered in the dental clinic environment will be presented with strategies to lower risks and improved the working environment. |

Course 13. -- Anatomy of Head And Neck

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|---------------------------|--|
| Course Number | AMS 254 |
| Course Title | Anatomy of Head And Neck |
| Semester/Year | 2/1 |
| Credits | 3 |
| Contact Hours | 4 |
| Total Hours | 60 |
| Category | Core Course |
| Required | Yes |
| Course Description | This course explains the structure and function of head and neck. It will focus on histological and embryologic development and structural microanatomy to gain an understanding of clinical and oral manifestation of the regions of the head and neck. |

Course 14. -- Clinical Practice and Instrumentation III

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|---------------------------|--|
| Course Number | DA 201 |
| Course Title | Clinical Practice and Instrumentation III |
| Semester/Year | 1/2 |
| Credits | 4 |
| Contact Hours | 16 |
| Total Hours | 240 |
| Category | Core Course |
| Required | Yes |
| Course Description | A clinical experience in which each student will be given-the opportunity to learn and utilize basic assisting skills. Students will be assigned a given number of dental patients. Each student will assist with introducing the patients t the clinic operating policies, establishing records, taking vital signs, charting, planning appointments assisting with or performing certain dental services, performing bookkeeping entries, and dismissing patients. |

Course 15. -- Community Dental Health

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|----------------------|-------------------------|
| Course Number | DA 205 |
| Course Title | Community Dental Health |
| Semester/Year | 1/2 |
| Credits | 2 |
| Contact Hours | 3 |
| Total Hours | 45 |

Category Required Core Course
Yes

Course Description This course prepares students to promote oral health and prevent oral diseases-in a community. It provides students with a broad understanding of the health care system and an objective view of the significant social, political, psychological,, and economic forces-directing the system. This course will provide students with knowledge and skills necessary to meet specific oral health needs of community groups as distinct from the traditional clinical approach, which is designed to meet the needs of individual patients.

Course 16. -- Dental Material II

Course Number DA 202
Course Title Dental Material II
Semester/Year 1/2
Credits 3
Contact Hours 4
Total Hours 60
Category Core Course
Required Yes

Course Description This Course will emphasize on teaching the students clinical applications of materials used in dentistry, e.g. restorative dentistry (gold- ceramics, acrylics, cements, models' materials and impression materials), operative dentistry (filling materials, liner, bases, and preventive materials), orthodontic and periodontics materials (wires, stainless steel, rubbers)and implant dentistry (titanium, and all related materials. In addition, the course will demonstrate clinical - handling of different dental instrumentation and the use of dental equipment used to polish, mix and set different dental materials.

Course 17. -- Oral Pathology and Histology

Course Number DA 203
Course Title Oral Pathology and Histology
Semester/Year 1/2
Credits 2
Contact Hours 2
Total Hours 30
Category Core Course
Required Yes

Course Description This course will provide the student with the basic understanding of diseases of the mouth and surrounding structures, and the skills necessary to detect deviations from normal in the evaluation of the .patient's health status. In addition, it will provide an overview of the embryogical development of the oral cavity and surrounding structures, and the histologic structure of oral tissues. The student is provided the opportunity to learn the development, structure, morphology, eruption and function of the primary and permanent dentition.

Course 18. -- Medical Emergencies in Dentistry

Course Number DA 204
Course Title Medical Emergencies in Dentistry
Semester/Year 1/2
Credits 3
Contact Hours 4
Total Hours 60
Category Core Course
Required Yes
Course Description This course will provide the student with the basic information necessary to successfully manage the most common emergency conditions that would occur in the dental clinic.

Course 19. -- Work Ethics and Loyalty

Course Number SS 112
Course Title Work Ethics and Loyalty
Semester/Year 1/2
Credits 3
Contact Hours 3
Total Hours 45
Category General Education Requirement
Required Yes
Course Description The course focuses on social work profession to enhance human well-being and help meet the basic human needs of all people. A historic and defining feature of social work is the profession's focus on individual well-being in a social context and the well-being of society. Fundamental to social work is attention to the environmental forces that create, contribute to, and address problems in living.

Course 20. -- Clinical Practice and Instrumentation IV

Course Number DA 211
Course Title Clinical Practice and Instrumentation IV
Semester/Year 2/2
Credits 5
Contact Hours 20
Total Hours 300
Category Core Course
Required Yes
Course Description This clinical experience is a continuation of Clinical Practice and Instrumentation I, II. Each student will gain additional chair-side assisting skills and experience and begin to incorporate the advanced functions into patient treatment procedures.

Course 21. -- Oral Health Education

Course Number DA 212
Course Title Oral Health Education
Semester/Year 2/2
Credits 2
Contact Hours 3
Total Hours 45
Category Core Course

Required Yes

Course Description A comprehensive course designed to acquaint students with the art and science of oral health education. This course trains student to educate dental clinics in dental office and public. Emphasis is on health education theories, plaque control aids, nutrient, smoking cessation and fluoride.

Course 22. -- Oral Pharmacology

Course Number PH 116
Course Title Oral Pharmacology
Semester/Year 2/2
Credits 2
Contact Hours 2
Total Hours 45
Category Core Course
Required Yes

Course Description It is an effect of the clinical practice of dental hygiene and dentistry. Drugs commonly used in dentistry and correct methods for their use. Emphasis on pharmacological aspects of anesthesia.

Course 23. – Communication Psychology

Course Number SP 455
Course Title Communication Psychology
Semester/Year 2/2
Credits 2
Contact Hours 3
Total Hours 45
Category Core Course
Required Yes

An analysis of the basic principles of learning theory as well as physical, social, and moral development as they are applied to classroom learning with emphasis upon the application of theory to practical educational situations. Basics of standardized measurement, behavior management as applied to the classroom, and the influence of socio-cultural forces in society on education are discussed. Educational exceptionalities and laws related to them are also examined

Course 24. -- Elective

Course Title Elective
Semester/Year 2/2
Credits 2
Contact Hours 2
Total Hours 30
Category Elective
Required Yes

Course 25. -- Elective

Course Title Elective
Semester/Year 2/2
Credits 2

Contact Hours 2
Total Hours 30
Category Elective
Required Yes

Course 26. -- Summer Training

Course Number DA 221
Course Title Summer Training
Semester/Year 1/3
Credits 3
Contact Hours 30
Total Hours 450
Category Core Course
Required Yes

Course Description

This practical course is designed as an internship for each student with a practitioner of dentistry. Arrangements are made with each dentist and dental hygienist taking part in the program to enable the student to obtain experience in all aspects of dental office procedures. Each student will be assigned to two offices for a period of three weeks in each office.

