

Curriculum for Associate Degree in Respiratory Therapy

The curriculum for associate degree in Respiratory Therapy consists of (72credit hours) as follows:

| Serial No | Requirements | Credit Hours |
|--------------|-----------------------------|--------------|
| First | University Requirements | 12 |
| Second | Program Requirements | 18 |
| Third | Specialization Requirements | 42 |
| Total | | 72 |

The Curriculum for associate degree in Respiratory Therapy

First: University requirements (12 credit hours) as follows:

| Course No. | Course Title | Credit Hours | Weekly Contact Hours | | Prerequisite |
|--------------|------------------|--------------|----------------------|-----------|--------------|
| | | | Theoretical | Practical | |
| 22001101 | Arabic Language | 3 | 3 | - | |
| 22002101 | English Language | 3 | 3 | - | |
| 21901100 | Islamic Culture | 3 | 3 | - | |
| 21702101 | Computer Skills | 3 | 1 | 4 | |
| Total | | 12 | 10 | 4 | |

Second: Program requirements (18 credit hours) as follow:

| Course No. | Course Title | Credit Hours | Weekly Contact Hours | | Prerequisite |
|--------------|---------------------|--------------|----------------------|-----------|--------------|
| | | | Theoretical | Practical | |
| 21301123 | Medical Physics | 3 | 3 | - | |
| 21301131 | Biochemistry | 2 | 2 | - | |
| 21301132 | Biochemistry lab | 1 | - | 3 | |
| 21102111 | Anatomy | 3 | 3 | - | |
| 21102113 | Physiology | 3 | 3 | - | |
| 21102115 | Medical sociology | 3 | 3 | - | |
| 21102117 | Medical terminology | 3 | 3 | - | |
| Total | | 18 | 17 | 3 | |

Third: Specialization Requirements (42 credit hours) as follows:

| Course No. | Course Title | Credit Hours | Weekly Contact Hours | | Prerequisite |
|--------------|-------------------------------------|--------------|----------------------|-----------|--------------|
| | | | Theoretical | Practical | |
| 21102141 | Foundations of nursing | 3 | 3 | | |
| 21102142 | Foundations of Nursing Clinical | 2 | - | 6 | |
| 21124211 | Respiratory Assessment | 2 | 1 | 3 | |
| 21102131 | Pharmacology | 3 | 3 | - | |
| 21124221 | Respiratory Disorders | 2 | 2 | - | |
| 21113101 | Infection control | 3 | 2 | 3 | |
| 21124231 | Respiratory Management (1) | 3 | 3 | - | |
| 21124232 | Respiratory Management (1) clinical | 2 | - | 6 | 21124231* |
| 21124233 | Respiratory Management (2) | 3 | 3 | - | 21124231 |
| 21124234 | Respiratory Management (2) clinical | 2 | - | 6 | 21124233* |
| 21124241 | Mechanical Ventilators | 3 | 1 | 6 | |
| 21102143 | Adult Health Nursing. | 3 | 3 | - | |
| 21102144 | Adult Health Nursing (Clinical) | 2 | - | 6 | |
| 21124251 | Cardio Pulmonary Resuscitation CPR | 2 | 1 | 3 | |
| 21124261 | Critical care nursing | 2 | 1 | 3 | |
| 21124262 | Neonatal respiratory care | 2 | 1 | 3 | |
| 21124200 | Training* | 3 | - | | |
| Total | | 42 | 24 | 45 | |

* Equivalent to 280 training hours.

Guiding Plan

| First Year | | | | | |
|----------------|----------------------|---------------|-----------------|-------------------|---------------|
| First Semester | | | Second semester | | |
| Course No. | Course Title | Credit Course | Course No. | Course Title | Credit Course |
| 22001101 | Arabic Language 101 | 3 | 21301123 | Medical Physics | 3 |
| 22002101 | English Language 101 | 3 | 20602113 | Physiology | 3 |
| 20602117 | Medical Terminology | 3 | 21901100 | Islamic Culture | 3 |
| 20602111 | Anatomy | 3 | 21301131 | Biochemistry | 2 |
| 21104215 | Medical Sociology | 3 | 21301132 | Biochemistry/ Lab | 1 |
| 21702101 | Computer Skills | 3 | 21102131 | Pharmacology | 3 |
| | | | 21113101 | Infection control | 3 |
| Total | | 18 | Total | | 18 |

| Second Year | | | | | |
|----------------|-------------------------------------|---------------|-----------------|-------------------------------------|---------------|
| Third Semester | | | Fourth semester | | |
| Course No. | Course Title | Credit Course | Course No. | Course Title | Credit Course |
| 21102141 | Foundations of Nursing | 3 | 21124233 | Respiratory Management (2) | 3 |
| 21102142 | Foundations of nursing Clinical | 2 | 21124234 | Respiratory Management (2) clinical | 2 |
| 21124241 | Mechanical Ventilators | 3 | 21124211 | Respiratory Assessment | 2 |
| 21124231 | Respiratory Management (1) | 3 | 21124221 | Respiratory Disorders | 2 |
| 21124232 | Respiratory Management (1) clinical | 2 | 21124262 | Neonatal respiratory care | 2 |
| 21102143 | Adult Health Nursing. | 3 | 21124251 | CPR | 2 |
| 21102144 | Adult Health Nursing (Clinical) | 2 | 21124261 | Critical care nursing | 2 |
| | | | 21124200 | Training | 3 |
| Total | | 18 | Total | | 18 |

Brief Description for Courses of the Study Plan of Respiratory Therapy

| Course Title | Course No | Credit Hours (Theoretical /Practical) |
|--------------|-----------|---|
| لغة عربية | 22001101 | 3 (3,0) |

تتضمن هذه المادة مجموعة من المهارات اللغوية بمستوياتها وأنظمتها المختلفة: الصوتية، والصرفية، والنحوية، والبلاغية، والمعجمية، والتعبيرية، وتشتمل نماذج من النصوص المشرقة: قرآنية، وشعرية، وقصصية، من بينها نماذج من الأدب الأردني؛ يتوخى من قراءتها وتذوقها وتحليلها تحليلاً أدبياً؛ تنمية الذوق الجمالي لدى الطلاب الدارسين.

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| لغة إنجليزية | 22002101 | 3 (3,0) |
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English 1 is a general course. It covers the syllabuses of listening, speaking, reading, writing, pronunciation and grammar, which are provided in a communicative context. The course is designed for foreign learners of the English language, who have had more than one year of English language study. The extension part would be dealt with in the class situation following the individual differences.

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| ثقافة إسلامية | 21901100 | 3 (3,0) |
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1. تعريف الثقافة الإسلامية وبيان معانيها وموضوعاتها والنظم المتعلقة بها – وظائفها وأهدافها
2. مصادر ومقومات الثقافة الإسلامية والأركان والأسس التي تقوم عليها .
3. خصائص الثقافة الإسلامية .
4. الإسلام والعلم ، والعلاقة بين العلم والإيمان
5. التحديات التي تواجه الثقافة الإسلامية .
6. رد الشبهات التي تثار حول الإسلام .
7. الأخلاق الإسلامية والأداب الشرعية في إطار الثقافة الإسلامية
8. النظم الإسلامية .

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| مهارات حاسوب | 21702101 | 3 (1,4) |
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An introduction to computing and the broad field of information technology is given. Topics covered include the basic structure of digital computer system, microcomputer, operating systems, application software, data communication and networks, and the internet. Hands-on learning emphasizes Windows XP, MS-office2000, and the internet.

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| Medical Physics | 21301123 | 3(3,0) |
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This course is designed to acquaint the students with knowledge about forces ad units of forces, energy changes in the body, heat loss from the body, and breathing mechanism. It helps the students acquire knowledge about electric signals of the body, general properties of sound in the body as a drum (percussion in medicine) and vision defects and corrections. Moreover, it makes the students recognize sources of radioactivity, nuclear medicine imaging devices, and the dose in nuclear medicine and therapy with radioactivity.

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| Biochemistry | 21301131 | 2(2,0) |
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Biochemistry course introduces the basic essential information to the college students to know the biomaterials, which we deal with during over daily activities, classification, chemical structure, reactions and how the human body metabolizes such biomolecules work.

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| Biochemistry (lab) | 21301132 | 1(0,2) |
| This course deals with performing practical applications for the different classes of biomolecules including carbohydrates, lipids and proteins. | | |
| Anatomy | 21102111 | 3(3,0) |
| The course deals with structural anatomy of the body as a whole to provide the students with knowledge of the structure of the body of the human being. This course deals all the systems of the body in an attempt to make it easy for the paramedical students to recognize the organs of the body. | | |
| Physiology | 21102113 | 3(3,0) |
| This course is designed to provide the students with the knowledge of the functions performed by the various parts and organs of the human body. It also deals with the integrity of the body systems as a whole to let the student recognize the physiological changes that happen within the human body and how the body systems work. | | |
| علم الاجتماع الطبي | 21102115 | 3(3,0) |
| يتناول هذا المساق المضمون المعرفي لعلم الاجتماع من حيث الفكر الاجتماعي والرعاية الصحية. فيقدم عرضاً لمفاهيم: الصحة، المرض، الرعاية الصحية، الخدمة الصحية والسلوك المرضي. وكذلك يتناول الدور الذي يمارسه المجتمع في الخدمة الصحية والسياق الاجتماعي للصحة والمرض وانعكاسات مفهوم الصحة والمرض على الخدمات الصحية. ثم يتناول المساق أهم الميادين الدراسية في العلوم الاجتماعية والسلوكية وذلك لفهم السلوك الاجتماعي على المستوى النظري والعملية من التطرق إلى مفاهيم: المعايير، الاتجاهات و القيم. | | |
| Medical Terminology | 21102117 | 3(3,0) |
| This course is designed to develop a working knowledge of the language of medicine to let students acquire word building skills by learning word roots, suffixes, prefixes and abbreviations. By relating terms to body systems, students should identify the proper use of words in a medical environment. Knowledge of medical terminology enhances the students' ability to communicate and practice his/her work successfully on the purpose of providing health services. | | |
| Foundations of nursing | 21102141 | 3 (3-0) |
| This course serves as a base for the other nursing courses it is designed to provide the student with the basic nursing concepts and principles needed for the practice of nursing. The course emphasizes the student's understanding of the nature of the client needs and the intervention required utilizing the functional health patterns such as activity/ exercise, nutrition and elimination. | | |
| Foundations of nursing/ clinical | 21102142 | 2 (0-6) |
| This course is designed to provide the student with laboratory guided experiences related to the integrated understanding of the basic nursing concepts and its practical applications to enable nursing students in performing nursing activities safely. Critical thinking and problem based learning will be emphasized. | | |
| Respiratory assessment | 21124211 | 2 (1-3) |
| This course is designed to provide the student with the basic nurses contribute significantly to the care of patients with respiratory problems by taking a comprehensive history and performing a thorough | | |

physical examination. This information allows the student to establish a baseline level of assessment of the patient's status and provides a framework for detection of rapid changes in the patient's condition.

The course emphasizes the student's understanding of the nature of the client needs and the intervention required utilizing the Physical Examination, Respiratory Monitoring and Respiratory Diagnostic Studies.

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| Pharmacology | 21102131 | 3 (3-0) |
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This course is designed to provide nursing students with general information and description of important drugs which are related to a particular system of human body or to an aspect of medical care.

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| Respiratory Disorders | 21124211 | 2 (2-0) |
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The course is designed to provide Respiratory Therapy student with knowledge about the common Respiratory Disorders, path physiology, laboratory and diagnostic tests, signs and symptoms, pharmacological, and management.

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| Infection control | 21113101 | 3 (2-3) |
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The course is designed to provide Respiratory Therapist with knowledge about reviews the microbiology of respiratory pathogens and apply the precautions to prevent the developmental of infections by using the physical and chemical means to sterilize, disinfect, and maintain respiratory equipment.

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| Respiratory Management (1) | 21124231 | 3 (3-0) |
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The purpose of this course is to provide the student with knowledge and of respiratory patients achieved during in assessing patient needs, providing quick and efficient care, evaluating results of intervention, and supporting, teaching, and preparing the patient and family.

Techniques, equipment, and procedures vary according to the patient's respiratory status. Bronchial hygiene, artificial airways, chest tubes, pharmacological agents, and various types of ventilator support are applied in this course.

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| Respiratory Management (1)clinical | 21124232 | 2 (0-6) |
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The purpose of this course is to provide the student with opportunities to utilize clinical knowledge and skills to the actual treatment of respiratory patients achieved during in assessing patient needs, providing quick and efficient care, evaluating results of intervention, and supporting, teaching, and preparing the patient and family.

Techniques, equipment, and procedures vary according to the patient's respiratory status. Bronchial hygiene, artificial airways, chest tubes, pharmacological agents, and various types of ventilator support are applied in this course.

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| Respiratory Management (2) | 21124233 | 3 (3-0) |
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The course is designed to provide Respiratory Therapy student with knowledge about Acid Base Balance, Disorders of Hydrogen Ion Concentration, Arterial Blood Gases, Pulmonary function test, IPPB TREATMENT, and Sleep apnea syndrome.

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| Respiratory Management (2) clinical | 21124234 | 2 (0-6) |
| <p>The purpose of this course is to provide the student with opportunities to utilize clinical knowledge and skills to the actual treatment of respiratory patients achieved about Acid Base Balance, Disorders of Hydrogen Ion Concentration, Arterial Blood Gases, Pulmonary function test, IPPB TREATMENT, and Sleep apnea syndrome.</p> | | |
| Mechanical Ventilators | 21124241 | 3 (1-6) |
| <p>The course is designed to provide Respiratory Therapy student with knowledge about classification of positive- pressure ventilators, Common indications for mechanical ventilation, Ventilator Modes, Weaning From Mechanical Ventilation, Complications of Mechanical Ventilation, New Frontiers and Challenges, and alternative modes of mechanical Ventilation</p> | | |
| Adult health nursing | 21102143 | 3 (3-0) |
| <p>The course is designed to provide the nurse student with knowledge about disease prevention, maintenance and restoration in addition to nursing care of the adult and the elderly suffering from common acute and chronic disorders prevalent in the region. The nursing process will be used as a framework to enable the student to assess, plan, implement and evaluate the effectiveness of nursing care provided to clients and their families.</p> | | |
| Adult health nursing/ clinical | 21102144 | 2 (0-6) |
| <p>The purpose of this course is to provide the student with opportunities to utilize the knowledge, skills and attitudes achieved during the Adult Health Nursing course to provide nursing care to adults and the elderly. Practicum experiences will be arranged at various health care settings.</p> | | |
| CPR | 21124251 | 2 (1-3) |
| <p>This course is designed to introduce the student into emergency medical care providing him with the knowledge and skills that make him able to do patient assessment and apply the safe Cardio Pulmonary Resuscitation and the more suitable instruments which allow him to manage airway obstruction, medical emergency care for Suffocation, Respiratory arrest, cardiac arrest and Stroke. It also introduces him to the skills needed for doing Cardio Pulmonary Resuscitation</p> | | |
| Critical Care Nursing | 21124261 | 2 (1-3) |
| <p>The critical care nursing course is designed to enhance the competence of the nurse working in a critical care unit, by obtaining the theoretical and practical knowledge for health and disease management of the critically ill patient with life threatening critical illness or injury, that require advanced technology and monitoring, and their families.</p> <p>The course content is designed to build the nurses knowledge of new and current technology for optimal patient care.</p> | | |

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|---------------------------------------|-----------------|----------------|
| Neonatal Mechanical Ventilator | 21124262 | 2 (1-3) |
|---------------------------------------|-----------------|----------------|

This course is designed to provide an overview of the various facts of respiratory care, including lung development, pulmonary function and pathophysiology, diagnosis, and management of neonatal disorders.

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| Training | 21124200 | 3 (280 training hours) |
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In this course the student will apply theoretical knowledge to clinical settings with emphasis on daily management and changing agent role. The student will take full responsibility under the supervision of clinical instructors and staff in charge of clinical settings who act as preceptors.

The course provides practice essential to the assessment, planning, Implementation and evaluation of clients in different clinical settings, as well as application of the respiratory skills related to the patients situations and treatment among the target aggregates.

This training will offer students the opportunity to take full responsibility as associate respiratory therapy before graduation.