

Republic of Yemen

Ministry of Higher Education & Scientific Research

21 SEPTEMBER UNIVERSITY for MEDICALS and APPLIED SCIENCES



Faculty of Clinical Pharmacy

Bachelor of Clinical Pharmacy & Pharm. D.

Course Specification of Medical Terminology

Course No. (04.01.218)

2023/2022

Prepared by:
Prof. Abdulhameed Al Thaifani

Reviewed by:
Dr. Ali Alyahawi

Head of the Department:
Dr. -----

Vice Dean for Quality affairs
Dr. Abdulelah Thabet

Dean of College:
Dr. Ali Alyahawi

I. Course Identification and General Information:

1	Course Title:	Medical Terminology			
2	Course Code & Number:	04.01.218			
3	Credit Hours	Theory Hours	Credit Hours		Lab. Hours
			Lecture	Exercise	
		2	2	--	--
4	Study Level/ Semester at which this Course is offered:	1 st Level1\ 2 nd term			
5	Pre –Requisite (if any):	None			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Bachelor of Clinical Pharmacy & Pharm.D.			
8	Language of Teaching the Course:	English			
9	Study System:	Semester Based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Clinical Pharmacy			
12	Prepared by:	Associate Prof. Abdulhameed Al-Thaifani			
13	Date of Approval:	2023			

II. Course Description:

Medical Terminology is designed to prepare the students to pronounce, define, analyze and comprehend the medical language. It introduces them to the vocabulary, abbreviations, and symbols used in health care settings. Emphasis is placed on building medical terms using prefixes, suffixes, and word roots.

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III. Course Intended Learning Outcomes (CILOs) :		Referenced PILOs	
A. Knowledge and Understanding: Upon successful completion of the course, students will be able to:			
a1	Define the basic vocabulary of medical terms and abbreviations as well as prefixes, roots, and suffices in order to combine forms of terminology		A1
a2	identify major body structure and functions that reinforces knowledge of basic anatomy and physiology		A1
B. Intellectual Skills: Upon successful completion of the course, students will be able to:			
b1	Correctly construct singular and plural forms of terms		B1
b2	Construct medical terms, given a definition		B1
C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:			
c1	Provide the complete meaning of a medical abbreviation		C1
c2	Demonstrate an understanding of medical terminology by identifying terms in disease concepts and with medical procedures..		C1
D. Transferable Skills: Upon successful completion of the course, students will be able to:			
d1	Display high degree of personal commitment, self-developing and cooperation with his colleagues.		D1
d2	Demonstrate analytical, communicative and professional skills related to his area of interest.		D1

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
a1	Define the basic vocabulary of medical terms and abbreviations as well as prefixes, roots, and suffices in order to combine forms of terminology	- Interactive lecture - Seminars and student presentations - Brain storming, role-play and simulation - Small group for discussing	- Assignments - Quizzes - Mid-term Exam - Final exam - Presentations
a2	identify major body structure and functions that reinforces knowledge of basic anatomy and physiology	- Interactive lecture - Seminars and student presentations - Brain storming, role-play and simulation - Small group for discussing	- Assignments - Quizzes - Mid-term Exam - Final exam - Presentations
Demonstrate analytical, communicative and professional skills related to his area of interest.			
		Teaching Strategies	Assessment Strategies
b1	Correctly construct singular and plural forms of terms	- Interactive lecture - Brain storming - Role-play & simulation - Small group discussions - Seminars and student presentations	- Assignments - Quizzes - Mid-term Exam - Final exam
b2	Construct medical terms, given a definition	- Interactive lecture - Brain storming - Role-play & simulation - Small group discussions - Seminars and student presentations	- Assignments - Quizzes - Mid-term Exam - Final exam
(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:			

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Provide the complete meaning of a medical abbreviation	- Active learning, - Small group learning. - Learning tasks and activities	- Assignments - Quizzes - Mid-term Exam - Final exam
c2	Demonstrate an understanding of medical terminology by identifying terms in disease concepts and with medical procedures..	- Active learning, - Small group learning. - Learning tasks and activities	- Assignments - Mid-term Exam - Final exam
(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:			
Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Display high degree of personal commitment, self-developing and cooperation with his colleagues.	- Classroom discussions, - Problems solving - Case study analysis	- Presentations - Case Studies - Learning activities
d2	Demonstrate analytical, communicative and professional skills related to his area of interest.	- Classroom discussions, - Problems solving - Case study analysis	- Presentations - Case Studies - Learning activities

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Introduction	- Course objectives and design - What is medical terminology? - Features of a medical term - Parts of a medical term	1	2	a1, a2, b2, c1,

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2	Formation of Medical Term	- Formation of a medical term - Pronunciation and pluralizing rules - Defining a medical term	1	2	a1, a2, b2, c1,
3	Suffixes	- Rules for linking suffixes - Types of suffixes - Surgical - Diagnostic - Pathological - Grammatical - Learning activities	1	2	a1, a2, b2, c1, d1
4	Prefixes	- Features of prefixes - Rules for linking prefixes - Types of prefixes - Prefixes of position - Prefixes of number - Prefixes of measurement - Prefixes of direction - Prefixes of color - Prefixes of time - Prefixes of size and comparison - Prefixes of negation - Other common prefixes - Learning activities	1	2	a1, a2, b2, c1, d1
5	Body Structure	- Levels of Organization and related terms - Anatomical Position - Planes of the Body - Body Cavities - Abdominopelvic Divisions - Quadrants - Regions	1	2	a2, b1, c2, d2
6	Body Structure	- Directional Terms - Pathology Diagnostic, Symptomatic, and Related Terms, - Diagnostic and Therapeutic	1	2	a2, b1, c2, d2

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		Procedures – Abbreviations – Learning Activities – Medical Record Activities			
7	Digestive System	– Anatomy and Physiology Key terms – Pathological and Diagnostic Terms – Surgical and Therapeutic Terms – Learning Activities – Case study Reports	1	2	a2, b1, b2, c1, c2, d1, d2
8	Mid-Term Theoretical Exam	– Mid-Term Theoretical written Exam	1	2	a1, a2, b1, b2, c1, c2, d1, d2
9	Musculoskeletal System	– Anatomy and Physiology Key terms – Pathological and Diagnostic Terms – Surgical and Therapeutic Terms – Learning Activities – Case study Reports	1	2	a2, b1, b2, c1, c2, d1, d2
10	Cardiovascular System	– Anatomy and Physiology Key terms – Pathological and Diagnostic Terms – Surgical and Therapeutic Terms – Learning Activities – Case study Reports	1	2	a2, b1, b2, c1, c2, d1, d2
11	Nervous System	– Anatomy and Physiology Key terms – Pathological and Diagnostic Terms – Surgical and Therapeutic Terms – Learning Activities – Case study Reports	1	2	a2, b1, b2, c1, c2, d1, d2
12	Integumentary System	– Anatomy and Physiology Key terms – Pathological and Diagnostic	1	2	a2, b1, b2, c1, c2, d1, d2

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		Terms – Surgical and Therapeutic Terms – Learning Activities Case study Reports			
13	Reproductive System	– Anatomy and Physiology Key terms – Pathological and Diagnostic Terms – Surgical and Therapeutic Terms – Learning Activities Case study Reports	1	2	a2, b1, b2, c1, c2, d1, d2
14	Respiratory System	– Anatomy and Physiology Key Terms – Pathological and Diagnostic Terms – Surgical and Therapeutic Terms – Learning Activities Case study Reports	1	2	a2, b1, b2, c1, c2, d1, d2
15	Urinary System	– Anatomy and Physiology Key Terms – Pathological and Diagnostic Terms – Surgical and Therapeutic Terms – Learning Activities Case study Reports	1	2	a2, b1, b2, c1, c2, d1, d2
16	Final Theoretical Exam	Final Theoretical Exam Written	1	2	a1, a2, b1, b2, c1, c2,
Number of Weeks /and Units Per Semester			16	32	

B. Case Studies and Practical Aspect:				
No.	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	none			
Number of Weeks /and Units Per Semester				

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C. Tutorial Aspect:

No.	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	none			
Number of Weeks /and Units Per Semester				

V. Teaching Strategies of the Course:

- Interactive lecture
- Seminars and student presentations
- Brain storming
- Role-play and simulation
- Small group discussion
- Learning tasks and activities
- Problems solving
- Case study analysis

VI. Assessment Methods of the Course:

- Assignments
- Quizzes
- Mid-term exam
- Final term exam

VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
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1	Assignment 1: Students are asked to finish "Identify and Define" work sheet handed to them. The work sheet is designed to check students' mastery of constructing and analyzing medical terms.	W5	5	a1, c1
2	Assignment 2: Read the case study reports and complete the charts given below. This is intended to check students comprehending faculties to communicate about a given health problem and procedures.	W11	5	a2, b2, c2
Total			10	

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	W5,11	10	10%	a1, b1, a2, b2, c2,
2	Quizzes 1 & 2	W3, 9	10	10%	a1, a2, b1, b2
3	Mid-Term Theoretical Exam	W7	20	20%	a1, b1, c1
4	Final Theoretical Exam	W16	60	60%	a2, b2, c2,
Total			100	100%	

IX. Learning Resources:

- Written in the following order: Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

1- Required Textbook(s) (maximum two): مثال example

- Fremgen, Bonnie F. and Frucht, Suzanne S., 2017, *Medical Terminology: A Living Language*: 78th edition, New York, Pearson.

- Gyls, Barbara A. and Wedding, Mary Ellen. 2009, *Medical Terminology Systems: A Body Systems Approach*, 6th edition, Philadelphia, F. A. Davis Company.

2- Essential References:

- C. Leonard, Peggy, 2014. *Quick & Easy Medical Terminology*, 7th edition, Elsevier.
- Chabner, Davi-Allen, 1991, *Medical Terminology: A Short Course*, 6th edition, Missouri, Saunders Elsevier Inc.

3- Electronic Materials and Web Sites etc.:

Websites:

- An Online Medical Dictionary
 1. <http://www.openmd.com>
 2. <http://www.medicinenet.com> Medtems Medical Dictionary AZ list
 3. <http://www.medic8.com/MedicalDictionary.htm>. Enter a medical term; then click on "Search" to see its definition.
- Web site providing information on health care issues, medical treatments, medications, etc.
 4. <http://www.medbroadcast.com>
- An interactive human anatomy site
 - 1- www.innerbody.com. When you click on a system, be sure to scroll down to see other links and animations.

X. Course Policies: (Based on the Uniform Students' By law (2007) تترك كما هي)

1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

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Faculty of Clinical Pharmacy

Bachelor of Clinical Pharmacy & Pharm. D.

Second Part of Course Specification

Course Plan (Syllabus) of

Medical Terminology

Course Code. 04.01.218

Prepared by:
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Reviewed by:
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Course Plan (Syllabus) of Medical Terminology

Course No. (04.01.218)

I. Information about Faculty Member Responsible for the Course:								
Name of Faculty Member:	Associate Prof. Abdulhameed Al-Thaifani							
Location& Telephone No.:	775390533							
E-mail:			SAT	SUN	MON	TUE	WED	THU
Office Hours								

2020/2021

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Prof. Abdulhameed Al Thaifani

Reviewed by:
Dr. Ali Alyahawi

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I. Course Identification and General Information:

1	Course Title:	Medical Terminology			
2	Course Code & Number:	04.01.218			
3	Credit Hours	Theory Hours	Credit Hours		Lab. Hours
Lecture			Exercise		
2		2	--	--	
4	Study Level/ Semester at which this Course is offered:	1 st Level1\ 2 nd term			
5	Pre –Requisite (if any):	None			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Bachelor of Clinical Pharmacy & Pharm.D.			
8	Language of Teaching the Course:	English			
9	Study System:	Semester Based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Clinical Pharmacy			
12	Prepared by:	Associate Prof. Abdulhameed Al-Thaifani			
13	Date of Approval:	2023			

II. Course Description:

Medical Terminology is designed to prepare the students to pronounce, define, analyze and comprehend the medical language. It introduces them to the vocabulary, abbreviations, and symbols used in health care settings. Emphasis is placed on building medical terms using prefixes, suffixes, and word roots.

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III. Course Intended Learning Outcomes (CILOs) :

(مخرجات تعلم المقرر)

B. Knowledge and Understanding: Upon successful completion of the course, students will be able to:

- | | |
|----|--|
| a1 | Define the basic vocabulary of medical terms and abbreviations as well as prefixes, roots, and suffices in order to combine forms of terminology |
| a2 | identify major body structure and functions that reinforces knowledge of basic anatomy and physiology |

B. Intellectual Skills: Upon successful completion of the course, students will be able to:

- | | |
|----|--|
| b1 | Correctly construct singular and plural forms of terms |
| b2 | Construct medical terms, given a definition |

C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:

- | | |
|----|--|
| c1 | Provide the complete meaning of a medical abbreviation |
| c2 | Demonstrate an understanding of medical terminology by identifying terms in disease concepts and with medical procedures.. |

D. Transferable Skills: Upon successful completion of the course, students will be able to:

- | | |
|----|--|
| d1 | Display high degree of personal commitment, self-developing and cooperation with his colleagues. |
| d2 | Demonstrate analytical, communicative and professional skills related to his area of interest. |

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IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Introduction	- Course objectives and design - What is medical terminology? - Features of a medical term - Parts of a medical term	1	2	a1, a2, b2, c1,
2	Formation of Medical Term	- Formation of a medical term - Pronunciation and pluralizing rules - Defining a medical term	1	2	a1, a2, b2, c1,
3	Suffixes	- Rules for linking suffixes - Types of suffixes - Surgical - Diagnostic - Pathological - Grammatical - Learning activities	1	2	a1, a2, b2, c1, d1
4	Prefixes	- Features of prefixes - Rules for linking prefixes - Types of prefixes - Prefixes of position - Prefixes of number - Prefixes of measurement - Prefixes of direction - Prefixes of color - Prefixes of time - Prefixes of size and comparison - Prefixes of negation - Other common prefixes - Learning activities	1	2	a1, a2, b2, c1, d1
5	Body Structure	- Levels of Organization and related terms - Anatomical Position	1	2	a2, b1, c2, d2

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		- Planes of the Body - Body Cavities - Abdominopelvic Divisions - Quadrants - Regions			
6	Body Structure	- Directional Terms - Pathology Diagnostic, Symptomatic, and Related Terms, - Diagnostic and Therapeutic Procedures - Abbreviations - Learning Activities - Medical Record Activities	1	2	a2, b1, c2, d2
7	Digestive System	- Anatomy and Physiology Key terms - Pathological and Diagnostic Terms - Surgical and Therapeutic Terms - Learning Activities - Case study Reports	1	2	a2, b1, b2, c1, c2, d1, d2
8	Mid-Term Theoretical Exam	Mid-Term Theoretical written Exam	1	2	a1, a2, b1, b2, c1, c2,
9	Musculoskeletal System	- Anatomy and Physiology Key terms - Pathological and Diagnostic Terms - Surgical and Therapeutic Terms - Learning Activities - Case study Reports	1	2	a2, b1, b2, c1, c2, d1, d2
10	Cardiovascular System	- Anatomy and Physiology Key terms - Pathological and Diagnostic Terms - Surgical and Therapeutic Terms - Learning Activities - Case study Reports	1	2	a2, b1, b2, c1, c2, d1, d2

11	Nervous System	– Anatomy and Physiology Key terms – Pathological and Diagnostic Terms – Surgical and Therapeutic Terms – Learning Activities – Case study Reports	1	2	a2, b1, b2, c1, c2, d1, d2
12	Integumentary System	– Anatomy and Physiology Key terms – Pathological and Diagnostic Terms – Surgical and Therapeutic Terms – Learning Activities - Case study Reports	1	2	a2, b1, b2, c1, c2, d1, d2
13	Reproductive System	– Anatomy and Physiology Key terms – Pathological and Diagnostic Terms – Surgical and Therapeutic Terms – Learning Activities - Case study Reports	1	2	a2, b1, b2, c1, c2, d1, d2
14	Respiratory System	– Anatomy and Physiology Key Terms – Pathological and Diagnostic Terms – Surgical and Therapeutic Terms – Learning Activities - Case study Reports	1	2	a2, b1, b2, c1, c2, d1, d2
15	Urinary System	– Anatomy and Physiology Key Terms – Pathological and Diagnostic Terms – Surgical and Therapeutic Terms – Learning Activities - Case study Reports	1	2	a2, b1, b2, c1, c2, d1, d2
16	Final Theoretical Exam	Final Theoretical Exam Written	1	2	a1, a2, b1, b2, c1, c2,
Number of Weeks /and Units Per Semester			16	32	

B. Case Studies and Practical Aspect:

No.	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	none			
Number of Weeks /and Units Per Semester				

V. Teaching Strategies of the Course:

- Interactive lecture
- Seminars and student presentations
- Brain storming
- Role-play and simulation
- Small group discussion
- Learning tasks and activities
- Problems solving
- Case study analysis

VI. Assessment Methods of the Course:

- Assignments
- Quizzes
- Mid-term exam
- Final term exam

VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1: Students are asked to finish "Identify and Define" work sheet handed to them. The work sheet is designed to check students' mastery of constructing and analyzing medical terms.	W5	5	a1, c1

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2	Assignment 2: Read the case study reports and complete the charts given below. This is intended to check students comprehending faculties to communicate about a given health problem and procedures.	W11	5	a2, b2, c2
Total			10	

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VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	W5,11	10	10%	a1, b1, a2, b2, c2,
2	Quizzes 1 & 2	W3, 9	10	10%	a1, a2, b1, b2
3	Mid-Term Theoretical Exam	W7	20	20%	a1, b1, c1
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- Written in the following order: Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

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- Chabner, Davi-Allen, 1991, *Medical Terminology: A Short Course*, 6th edition, Missouri, Saunders Elsevier Inc.

3- Electronic Materials and Web Sites etc.:

Websites:

- An Online Medical Dictionary
 5. <http://www.openmd.com>
 6. <http://www.medicinenet.com> Medterms Medical Dictionary AZ list
 7. <http://www.medic8.com/MedicalDictionary.htm>. Enter a medical term; then click on "Search"

to see its definition.

- Web site providing information on health care issues, medical treatments, medications, etc.
8. <http://www.medbroadcast.com>
- An interactive human anatomy site
- 2- www.innerbody.com. When you click on a system, be sure to scroll down to see other links and animations.

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2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
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