



Course Syllabus
Health Sciences Stream (ENG 071)
1st Term, Academic Year 1437/1438

Course Title	English Language for Health Sciences Stream
Course Code	ENG 071 – 20 hours weekly
Required Textbook	<ul style="list-style-type: none">• Grammar for IELTS - Cambridge University Press• Unlock - Listening and Speaking Skills 3- Cambridge Press• Career Paths - Medical - Express Publishing• Objective IELTS: Cambridge University Press.
Credit hours: 8	Contact hours: 20
Brief Course Description	
<p>English Language (Grammar) introduces students to university-level English Grammar. Its goal is to enable students to develop all their English skills to a higher lever through a greater understanding of Grammar. Attention is paid to complex sentence construction using a variety of syntactical elements.</p> <p>English Language (Listening and Speaking) introduces students to university-level listening and speaking. Its goal is to enable students to build on the skills they have developed through their earlier school years. This course focuses on improving students' abilities in listening comprehension and speaking on prepared subjects as well as spontaneous responses to unexpected statements or questions. When listening, attention is paid to extracting useful information from a dialogue. During speaking exercises the focus is on supporting opinions with facts or logical reasoning.</p> <p>English Language (Study Skills) introduces students to university-level English Vocabulary and methods of acquisition. Its goal is to enable students to become independent learners and develop the ability to enlarge their vocabulary outside of class using methods modeled in the classroom. Attention is paid to practical learning skills such as vocabulary use and using context clues for learning new vocabulary.</p> <p>English Language (IELTS Preparation) is a review course that covers the four skill areas: Listening, Speaking, Reading & Writing. Its goal is to enable students to develop all their English skills to a level of 5.5 on the IELTS exam. . The focus is to prepare students to successfully complete the IELTS exam required for acceptance into the College of Medicine.</p>	
Course Objectives	
Upon successful completion of this course, students should be able to:	
<ol style="list-style-type: none">1. Accurately use grammar in order to effectively interact in conversation.2. Be more creative in using sentence elements in writing.3. Be aware of variations in formal and conversational language .4. Understand more grammatically complex writing.5. Explain the functions of the different elements of sentence structure.6. Understanding the spoken language at normal speed by a native speaker.7. Speak with confidence on a variety of subjects.8. Have a successful outcome on the IELTS exam.	



9. Utilize an enlarged vocabulary base for reading, writing and conversation.
10. Express thoughts and opinions about a topic using thematically linked vocabulary.
11. Develop awareness of the components of learning.
12. Assume responsibility for their own progress in education.
13. Strengthen student's study skills in preparation for the IELTS exam.
14. Help each student improve their areas of deficiency.
15. Accustom students to the format and requirements of the IELTS exam.

Course Policy

- **Students are expected to:**

1. Attend all classes except in case of illness or emergency.
2. Prepare for class by completing readings and assigned work in advance.
3. Actively participate in classroom activities.
4. Ask questions if they do not understand.
5. Submit all assignments according to instructions, complete, and on time.
6. Use instructor comments and feedback to improve future work.
7. Cooperate with and act respectfully toward other students and the instructor.
8. Communicate with the instructor about problems or concerns as soon as possible.
9. Put focused and disciplined effort into the course assignments.

- **Attendance**

The university expects students to attend all classes in which they are enrolled. Regular attendance is necessary if individuals are to excel. There is a direct correlation between attendance and academic success. Attendance is mandatory. All students must arrive on time and prepared to learn at each class session. At the instructor's discretion, students may be marked absent if they arrive more than 15 minutes late to any class.

- **Disruptive Behavior**

Disruptive behavior is an activity that interferes with learning and teaching. Inappropriate talking during class, tardiness, cheating, use of cell phone, etc. all disrupt the learning process. Students who are found guilty of disruptive behavior face serious consequences.

- **Academic honesty**

The writing students do in **ENG 072** must be their own. Presenting the work of others, whether it is used without attribution (plagiarism) or submitted by students but written by someone else (cheating), violates the university's policy on academic integrity. Students who are found guilty of plagiarism or cheating face serious consequences. According to the university policy, a largely or fully plagiarized assignment should result in a grade of F for the course.

Grading:

Course Assessment	Marks
Course Work (Class participation and quizzes)	30
Midterm Exam	30
Final Exam	40
Total	100



Course Calendar

Content to be covered:

Week	From	To	Grammar (Grammar for IELTS)	Listening and Speaking (Unlock - Listening and Speaking Skills 3)	Medical Vocabulary (Career Paths - Medical)	IELTS Preparation (Objective IELTS: Cambridge University Press.)
1.	24 / 12 / 1437 25 / 9 / 2016	28 / 12 / 1437 29 / 9 / 2016	Introduction to the Course	Introduction to the Course	Introduction to the Course	Introduction
2.	1 / 1 / 1438 2 / 10 / 2016	5 / 1 / 1438 6 / 10 / 2016	Unit 1: Present Tenses	Unit 1: Animals (p. 14-24)	Unit 1: Hospital Departments Unit 2: Hospital Staff Unit 3: Hospital Equipment	Unit 1: Communicate (pages 8-11)
3.	8 / 1 / 1438 9 / 10 / 2016	12 / 1 / 1438 13 / 10 / 2016	Unit 2: Past Tenses 1	Unit 1: Animals (p. 25-31)	Unit 4: Parts of the Body 1 Unit 5: Parts of the Body 2 Unit 6: Parts of the Body 3	Unit 2: A healthy diet (pages 12-15)
4.	15 / 1 / 1438 16 / 10 / 2016	19 / 1 / 1438 20 / 10 / 2016	Unit 3: Present Perfect	Unit 2: Customs and Traditions (p. 32-41) 23/09/2014 National Day	Unit 7: Respiratory System Unit 8: Circulatory System Unit 9: Digestive System	Unit 3: City attractions (pages 16-20) Unit 4: Ways of learning (pages 21-31)
5.	22 / 1 / 1438 23 / 10 / 2016	26 / 1 / 1438 27 / 10 / 2016	Unit 4: Past Tenses 2	Unit 2: Customs and Traditions (p. 42-49)	Unit 10: First Aid Unit 11: Common Abbreviations Unit 12: Measurements	Unit 5: Discovering the past (pages 32-36) Unit 6: What is job satisfaction? (pages 37-40)
6.	29 / 1 / 1438 30 / 10 / 2016	3 / 2 / 1438 3 / 11 / 2016	Unit 5: Future 1	Unit 3: History (p. 50-67)	Unit 13: Administering Medication Unit 14: Describing Frequency Unit 15: Maintaining Hygiene	Unit 7: Selling dreams? (pages 41-45) Unit 8: Time to waste? (pages 46-56)
7.	6 / 2 / 1438 6 / 11 / 2016	10 / 2 / 1438 10 / 11 / 2016	Unit 6: Future 2	Unit 4: Transport (p. 68-85)	Review of Book 1	Unit 9: Climate change (pages 57-60) Unit 10: A place to work or live in (pages 61-64)
Mid-Term Vacation						
8.	20 / 2 / 1438 20 / 11 / 2016	24 / 2 / 1438 24 / 11 / 2016	Revision and Midterm Exam	Revision and Midterm Exam	Revision and Midterm Exam	
9.	27 / 2 / 1438	2 / 3 / 1438	Unit 7: Countable and uncountable nouns	Unit 5: Environment	Unit 1: Blood	



	27 / 11 / 2016	1 / 12 / 2016		(p. 86-103)	Unit 2: Bones Unit 3: Skin	life (pages 65-68) Unit 12: Sport, just for fun? (pages 69-79)
10.	5 / 3 / 1438 4 / 12 / 2016	9 / 3 / 1438 8 / 12 / 2016	Unit 8: Referring to nouns	Unit 6: Health and Fitness (p. 104-121)	Unit 4: Nervous System Unit 5: Endocrine System Unit 6: Reproductive System	Unit 13: Choices (pages 80-83) Unit 14: The importance of colour (pages 84-88)
11.	12 / 3 / 1438 11 / 12 / 2016	16 / 3 / 1438 15 / 12 / 2016	Unit 9: Pronouns and referencing	Unit 7: Discovery and Invention (p. 122-139)	Unit 7: Urinary System Unit 8: Taking a History Unit 9: Talking About Symptoms	Unit 15: Social interaction (pages 89-94) Unit 16: Books, writing and signs (pages 95-106)
12.	19 / 3 / 1438 18 / 12 / 2016	23 / 3 / 1438 22 / 12 / 2016	Unit 10: Adjectives and adverbs	Unit 8: Fashion (p. 140-157)	Unit 10: Physical Examinations Unit 11: Diagnostic Tests Unit 12: Diagnostic Equipment	Unit 17: The body clock (pages 107-111)
13.	26 / 3 / 1438 25 / 12 / 2016	30 / 3 / 1438 29 / 12 / 2016	Unit 11: Comparing things Unit 12: The noun phrase	Unit 9: Economics (p. 158-175) Unit 10: The Brain (p. 176-193)	Unit 13: Family Medicine Unit 14: Pediatrics Unit 15: Geriatrics	Unit 18: The tourist boom (pages 112-115) Unit 19: Transport (pages 116-121)
14.	3 / 4 / 1438 1 / 1 / 2017	7 / 4 / 1438 5 / 1 / 2017	REVISION + FINAL EXAMS PREPARATION			
15.	Final Exams					
Note:						
<ul style="list-style-type: none"> A two-hour final examination will be scheduled by the Preparatory Year Deanship during the official exam period. More information about the form of this examination will be provided as the term goes on. 						





الخطة التدريسية Syllabus Distribution

الفصل الدراسي الأول ١٤٢٧/١٤٢٨ هـ

رمز المقرر	اسم المقرر	عدد الساعات المعتمدة	عدد ساعات الاتصال	المتطلب السابق
وصل ٠١٢ / وصل ٠١٣ / وصل ٠١٤ وصل ٠٤٠ / وصل ٠٤١	مهارات الاتصال	١	٢	لا يوجد
مشرف المقرر	د. هانيس متعب الشمري	dr.hayisalshammari@gmail.com		
وقت المحاضرة	حسب الجدول	مكان المحاضرة	حسب الجدول	

أهداف المقرر:

- التعرف على مفهوم الاتصال وأدابه وأهميته ومهاراته وعناصره.
- التعرف على أنماط الشخصيات المحيطة بنا في الموقف التواصلية لتحديد الأساليب والإستراتيجيات المناسبة للتواصل معها.
- التعرف على آلية تحسين مهارة الحديث والاستماع وغيرها مع الآخرين.
- إتقان المهارات الأساسية للتواصل غير اللغوي وتوظيفها في الموقف التواصلية بنجاح.
- بناء رسالة تواصلية صحيحة ودقيقة ومؤثرة.
- إجراء مقابلات شخصية ومحادثات اجتماعية ورسمية ناجحة.
- التحدث بثقة وطلاقة أمام الجماهير الكبيرة.

الكتاب المقرر: إصدار عمادة البرامج التحضيرية، سنة الطبع ١٤٢٧ هـ.

آلية التقويم: الجدول التالي يوضح توزيع الدرجات لهذا المقرر:

الدرجة	آلية التقويم
١٠ درجات	الحضور
١٠ درجات	المشاركة والتفاعل
١٠ درجة	التطبيقات الميدانية (الزيارات الميدانية أو الأعمال التطوعية)
٢٠ درجة	العرض التقديمي + الورقة البحثية
٥٠ درجة	الاختبارات القصيرة (٤): (٣ اختبارات فعلية كل اختبار ١٥ درجة + الاختبار الرابع الأخير موجود آخر الكتاب الدراسي ٥ درجات)
١٠٠ درجة	المجموع

تعليمات:

- الحضور إلزامي لهذا المقرر، وسوف يتم التحضير في بداية أول ٥ دقائق من بدء المحاضرة.
- إذا وصلت نسبة غياب الطالب/ة ٢٠% من عدد المحاضرات سوف يتم حرمان الطالب/ة، ويرصد له/ها "محروم" في كشف رصد الدرجات.
- يمنع منعاً باتاً استخدام الجوال أو التحدث مع طالب/ة آخر أثناء شرح الأستاذ/ة داخل قاعة الاختبار.
- يجب على الطالب/ة إحضار الكتاب المقرر والتي يمكن الحصول عليها من "مركز بيع الكتب في العمادة".
- على كل طالب/ة تقديم الواجبات والتكليفات في الموعد المحدد لذلك، كما يجب على الطالب/ة التقدم للامتحان بنفسه، وإذا حاول/ت الغش سوف يطبق بحقه/ها عقوبة الغش ويحال إلى اللجنة المختصة بالعمادة.
- إذا احتاج الطالب/ة إلى خدمات أو رعاية خاصة فعليه مراجعة وحدة الإرشاد الأكاديمي في العمادة وإبلاغهم بذلك.



توزيع مقرر مهارات الاتصال على الأسابيع خلال الفصل الدراسي الأول ١٤٣٧/١٤٣٨هـ:

الموضوع	التاريخ	الأسبوع
استقبال الطلاب	2016 / 9 / 18 1437 / 12 / 17	الأول
الاتصال: أهميته، عناصره، بيئته	2016 / 9 / 25 1437 / 12 / 24	الثاني
الاتصال اللفظي وغير اللفظي + الاتصال الفردي والجماعي	2016 / 10 / 2 1438 / 1 / 1	الثالث
مهارات التواصل الذاتي.	2016 / 10 / 9 1438 / 1 / 8	الرابع
الاختبار الأول + توزيع المجموعات للبحث العلمي والعمل التطوعي وألبته	2016 / 10 / 16 1438 / 1 / 15	الخامس
مهارة تطوير الذات.	2016 / 10 / 23 1438 / 1 / 22	السادس
مهارة الاستماع	2016 / 10 / 30 1438 / 1 / 29	السابع
مهارة الحديث.	2016 / 11 / 6 1438 2 / 6	الثامن
(بداية إجازة منتصف العام الدراسي)	2016 / 11 / 13 1438 / 2 / 13	التاسع
مهارة التواصل في البيئة الجامعية	2016 / 11 / 20 1438 / 2 / 20	العاشر
الاختبار الثاني + استلام الأعمال والتكاليف	2016 / 11 / 27 1438 / 2 / 27	الحادي عشر
مهارة التواصل الإلكتروني + مهارة القيادة والتأثير	2016 / 12 / 4 1438 / 3 / 4	الثاني عشر
مهارة الحوار والإقناع	2016 / 12 / 11 1438 / 3 / 12	الثالث عشر
مهارة الاتصال الجماهيري	2016 / 12 / 18 1438 / 3 / 19	الرابع عشر
+ الاختبار الثالث + استلام واجب الكتاب	2016 / 12 / 25 1438/3 / 26	الخامس عشر
مراجعة نهائية وإنهاء كافة ما يتعلق بالمنهج	2017 / 1 / 1 1438/4 / 3	السادس عشر

المشرف الأكاديمي / د. هيس الشمري

وبالله التوفيق





Course Syllabus

1st Semester 1437/1438

Course Number	Course name	credit hours	Communication hours
BIO 072	GENERAL BIOLOGY	4	4

Course's Objectives:

Upon completion of this course the student should be able to:

- 1- Explain the basic chemical principles that affect living things and how they obtain energy.
- 2- Distinguish the changes in populations and how human activities have shaped local and global ecology.
- 3- Describe the structure of eukaryotic and prokaryotic cell.
- 4- Describe how cell structures are adapted to their functions and explain the process of cell growth and division.
- 5- Analyze how cellular information is passed from one generation to another in particular the structure of DNA and how it functions in genetic inheritance.
- 6- Describe natural selection and explain how populations evolve to form new species.
- 7- Distinguish bacteria from viruses.
- 8- Analyze effect of environment on the homeostasis of human body.
- 9- Describe the types of humane tissues and systems.
- 10- Understand the basis of immunity and types of immunoglobulins.
- 11- Define characteristics and traits of animals including how they collect information about their environments and interact with it and other organisms.

Text Book:

- Campbell, J. A., Reece, J.B –Pearson Biology 10th ed. (2013); international edition. ISBN-13: 978-0321775658
- Human Physiology By Stuart Fox
- Human biology By Sylvia S. Mader,

Grading:

Parameters	Score
Quiz 1	10%
Mid-term	30%
Quiz 2	10%
Self learning	10%
Final exam	40%
Total	100%

Attendance:

Attendance will be taken in the first 5 minutes of the lecture (lectures). If you came late, you should remind me at the end of the class to consider your attendance for the second lecture, otherwise, you will be marked absent for the two lectures. Accepted excuses for absence should be submitted with receipts after the absent lectures.



Course schedule (by Weeks):

No of Weeks	Lecture topics	Contact hours
W1	<ul style="list-style-type: none"> ▪ Characteristics of life - properties of living matter, differences between living and nonliving matter ▪ Fundamental Biology Skills and Knowledge: <ul style="list-style-type: none"> - Water's properties, Acids ,bases and buffers The importance of pH to living organisms 	4
W2	<ul style="list-style-type: none"> ▪ Carbon-based life and functional groups <ul style="list-style-type: none"> ▪ Macromolecules : ▪ Carbohydrates – Lipids ▪ Proteins- Nucleic acids 	4
W3	<ul style="list-style-type: none"> ▪ The difference between prokaryotic and eukaryotic Cells ▪ Viruses and prokaryotes, protists ,fungi and plants 	3
W3 Quiz 1		
W4	<ul style="list-style-type: none"> ▪ Cell structure and function, ▪ Cell growth , Cell division (Mitosis and Meiosis) 	4
W5	<ul style="list-style-type: none"> ▪ Molecular biology ▪ Human heredity 	4
W6	<ul style="list-style-type: none"> ▪ Genetic diseases ▪ Genetic engineering 	4
W7	<ul style="list-style-type: none"> ▪ Types of Tissues in human body (1) 	4
W8	<ul style="list-style-type: none"> ▪ Types of Tissues in human body (2) 	4
W9	<ul style="list-style-type: none"> ▪ Enzymes and their roles Photosynthesis, cellular respiration and fermentation.	4
W10	<ul style="list-style-type: none"> ▪ Human Systems: Digestive and Circulatory system 	3
W10 Mid-term Exam		
W11	<ul style="list-style-type: none"> ▪ Human Systems: Respiratory and Nervous system 	4
W12	Human Systems: Endocrine, excretory and reproductive system	3
W12 Quiz 2		
W13	<ul style="list-style-type: none"> ▪ Classification of bacteria and some related diseases <ul style="list-style-type: none"> ▪ Types of immunities in human ▪ Structures and types of immunoglobulins. 	4
W14	<ul style="list-style-type: none"> ▪ Basics of embryology Types of body fluids ▪ Environmental and human behaviors ▪ Thermoregulation, Homeostasis and biological clock. 	4
W14 Revision week		
W15 Final Exam		





Deanship of Preparatory Programs

**Course Syllabus
First Term 1438/1437**

Course Number:	Course name :	credit hours :	Communication hours
CS 071	Computer Skills For Preparatory Programs "Medical Science Track"	3	4
Prepared by:	Osama Mohamed Abdalla Yousif		
Mobile	0555820242		
e-mail:	Omyousif@imamu.edu.sa		

Course's Objectives: This is an introductory course in the first semester of the preparatory program in Administrative Sciences Track and designed for beginner students who need enough background and skills in the field of computer technology and information systems. This course is a one semester course which meets three hours a week. The time is divided between lecture and hands-on work in the computer laboratory.

Text Book: ICT For Preparatory Programas, Edited and Supervised by college of computer and information science.

Website: www.pearsoned.com/uk.

Grading:

Attendance	5%
participation	5%
Quizzes	15%
Self-learning	15%
Mid-term Exam	20%
Final Exam	40%
Total	100%

Attendance: Attendance will be taken in the first 5 minutes of the lecture (lectures). If you came late, you should remind me at the end of the class to consider your attendance for the second lecture, otherwise, you will be marked absent for the two lectures. Accepted excuses for absence should be submitted within two weeks after the absent lectures.

Note:

1. During the semester the maximum percentage of not approved absences are not more than 20%, student exceed this percentage is failed.

2. Students are responsible for all materials and information covered at each class meeting, even if they are absent
Classroom Participation: It is expected that you participate in the discussion at lectures by asking and answering questions, raising issues, and making observations and constructive comments.





Deanship of Preparatory Programs

Cheating and Dishonesty: Each student should write and submit his/her own work either on exams or on exercises and other course material. Any kind of cheating or dishonesty throughout the course is considered a serious offence and will be dealt with strictness and no mercy.

Attention: Don't use or leave open your mobile phone throughout lectures. Violating this may result in lowering your grad or expelling from the classroom.

Course requirement:

- No assignments will be accepted more than 2 weeks late. They will be penalized 50% for each week late.
- Students are expected to do their own work on assignments and exams.
- Student responsible to provide a USB to save a copy for all files and documents.
- Lectures and class notes does not replace textbooks.
- Assessment tests are not allowed to be redone unless a medical report is provided. And it would be schedule in a specific time.
- MsWindows7 operating system and Microsoft office 2007 must be installed in each student's laptop, to be able to do homework and practice from home.
- Please turn off all mobile devices or set to silent mode during class.
- Eating, drinking, reading other course material not allow during class.
- Student responsible to keeping the PC in LAB.

Course schedule:

Weeks			Lecture Topics	Sections	Hours	sheet	(WS)	Exams
No	From	To						
1	18/09/2016 17/12/1437	22/09/2016 21/12/1437	Introduction		1			
			Chapter 1 : Why Computers Matter to You Becoming Computer Literate	1.1- Why Should You Become Computer Literate? 1.2-:Becoming a Savvy Computer User and Consumer 1.3-:Being Prepared for Your Career 1.4-Computers in Today's Careers (mention only) Review and questions	2			
2	25/09/2016 24/12/1437	29/09/2016 28/12/1437	Chapter 2 : Looking at Computers Understanding the Parts	2.1-Understanding Your Computer 2.2-Input Devices 2.3- Output Devices	1			
			Chapter 2 : Looking at Computers Understanding the Parts	2.4-Processing and Memory on the Motherboard 2.5-:Storing Data and Information 2.6- Connecting Peripherals to the Computer	2			





Deanship of Preparatory Programs

3	2/10/2016 1/1/1438	06/10/2016 5/1/1438	Chapter 2 : Looking at Computers Understanding the Parts	2.7- Power Controls 2.8-Setting It All Up 2.9-Review and questions	1		
			Review and questions				
4	09/10/2016 08/01/1438	13/10/2016 12/01/1438	Chapter 3 Application Software: Programs That Let You Work and Play	3.1-The Nuts and Bolts of Software 3.2-Productivity Software for Home and Office 3.3-Media Software for Home	2		
			Chapter 3 :Application Software: Programs That Let You Work and Play	3.4-software Fun for Home 3.5-Business Software for Home and Office 3.6-Getting Help with Software 3.7-Buying Software 3.8-Installing, Uninstalling, and Starting Software			
5	16/10/2016 15/01/1438	20/10/2016 19/01/1438	MsOffice2010 (word-processing)	3.9-Get familiar with Word 3.10-Create a document	1		
			MsOffice2010 (word-processing)	3.11-Format your document with styles			
6	23/10/2016 22/01/1438	27/10/2016 26/01/1438	Chapter 4 :Using System Software: The Operating System, Utility Programs, and File Management	4.1-System Software Basics 4.2-Types of Operating Systems 4.3-The Desktop and Windows Features	2		
			Review and questions worksheet 1 for word-processing	MS word worksheet			
7	30/10/2016 29/01/1438	03/11/2016 03/02/1438	Chapter 4 :Using System Software: The Operating System, Utility Programs, and File Management	4.4-Organizing Your Computer: 4.5-File Management 4.6-Utility Programs	3		
8	06/11/2016 06/02/1438	10/11/2016 10/02/1438	Mid-term Exam Ch1+Ch2+Ch3+ word processing (20 marks)				
9	Vacation						





Deanship of Preparatory Programs

10	20/11/2016 20/02/1438	24/11/2016 24/02/1438	Chapter 5 : The Internet and World Wide Web	5.1-how the Internet works 5.2-accessing the Internet going online 5.3-the Internet and the World Wide Web what's the differences?	3		
11	27/11/2016 27/02/1438	01/12/2016 02/03/1438	Chapter 5 : The Internet and World Wide Web	5.4-Finding information on the web 5.5-E-commerce 5.6-search internet (using Google to find information)	3	WS 10 marks	
12	04/12/2016 05/03/1438	08/12/2016 09/03/1438	MsOffice2010 (Microsoft Excel)	5.7-Excel basic interface 5.8-Create a excel sheet 5.9-Using excel function MS excel worksheet	2		
			Chapter 6 : Networks : communicating and sharing Resources	6.1-Basic network concepts	1		
13	11/12/2016 12/03/1438	15/12/2016 16/03/1438	Chapter 6 : Networks : communicating and sharing Resources	6.2-Advantages and disadvantage of network 6.3-Network topology	2		
			Review and questions			1	
14	18/12/2016 19/03/1438	22/12/2016 23/03/1438	Chapter 7 : Privacy ,Crime ,and security	7.1-computer crime and cybercrime 7.2-type of computer crime	3		
15	25/12/2016 26/03/1438	29/12/2016 30/03/1438	Review and questions			3	Quiz 2 (10 marks)
16	25/12/2016 26/03/1438	29/12/2016 30/03/1438	General Review and questions	Review and questions for all topics	3		
		08/01/2017 10/04/1438			Final Exam (40 marks)		





الخطة التدريسية

Syllabus Distribution

الفصل الدراسي الأول ١٤٣٧ / ١٤٣٨ هـ

رمز المقرر	اسم المقرر	عدد الساعات المعتمدة	عدد ساعات الاتصال	المتطلب السابق
نهج ٠١٤، نهج ٠١٥، نهج ٠٧٧ نهج ٠٧١، نهج ٠٤٠	مهارات التعلم	١	٢	لا يوجد
مشرف المقرر	د. طعيس بن مشلش المقاطي	tmuqati@hotmail.com		
وقت المحاضرة	حسب الجدول	مكان المحاضرة	حسب الجدول	

أهداف المقرر:

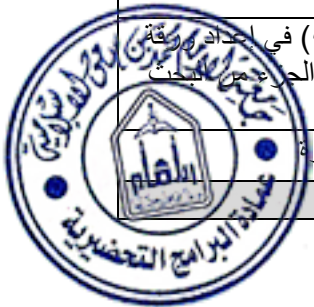
يهدف هذا المقرر إلى إكساب الطالب/ة المهارات الأكاديمية والحياتية الآتية:

- المهارات التنظيمية التي توضح لـ/ها أن يتعلم كيف يتعلم، ويطبق التخطيط وإدارة الوقت، ويتعرف على عادات العقل التي تساعده على التفكير بطريقة إبداعية ناقدة، وأن يعتمد على نفسه في اكتساب المعرفة.
- مهارات التفكير والبحث تساعد الطالب/ة على اكتساب مهارات إعداد البحث العلمي وطرق جمع المعلومات من مصادر المعلومات المختلفة، وتطوير مهارة بناء استراتيجية للبحث عن المعلومات تتسم بالفعالية.
- المهارات الأكاديمية وهي ضرورية للطالب الجامعي حتى يتمكن من تحسين مهاراته في الاستذكار والقراءة والكتابة وتقييمها والاستعداد للاختبارات.
- أدوات التفكير تعمل على تحسين مستوى التفكير لدى المتعلم وتجعله ذا نظرة واسعة وحكيمة، وتمكنه من إنجاز عمله بشكل أفضل، وتحسن قدرته على اتخاذ القرار من خلال إيجاد حلول عملية لما يواجهه من مشكلات.

الكتاب المقرر: مهارات التعلم-الإصدار السادس(١٤٣٧-١٤٣٨ هـ) إعداد: د. سعد عبد المجيد. د. خالد البسيوني. عمادة البرامج التحضيرية.

آلية التقويم: الجدول التالي يوضح توزيع الدرجات لهذا المقرر

م	آلية التقويم	الدرجة	الإيضاح
١	الحضور	١٠ درجات	مدى انضباط الطالب/ة في حضور المحاضرات خلال أسابيع الدراسة.
٢	المشاركة والتفاعل	١٠ درجات	مدى مشاركة الطالب/ة وتفاعله خلال الفصل الدراسي الأول.
٣	اختبارات قصيرة وعددها (٤) اختبارات	٥٠ درجة	اختبارات نهاية قصيرة، الأول(١٠) درجات والثاني والثالث(١٥) درجة والرابع(١٠) درجات.
٤	ورقة بحثية + عرض تقديمي	٢٠ درجة	يشترك كل طالب/ة مع مجموعة عددهم (٥) في إعداد ورقة بحثية(بحث علمي) ثم يعرض كل طالب/ة البحث الذي سبق إعداده أمام الطلاب/ات.
	يق عملي	١٠ درجات	ينفذ كل طالب/ة نشاط تطبيقي حسب المهارة
	مجموع	١٠٠ درجة	تحسب الدرجة الكاملة من ١٠٠ درجة



تعليمات:

- الالتزام بحضور جميع المحاضرات والحرص على الحضور في وقت المحاضرة وسوف يتم التحضير في بداية أول ٥ دقائق من بدء المحاضرة، ويعتبر الطالب/ة المتأخر/ة متغيباً عن المحاضرة، وعذر الغياب المقبول يجب أن يعتمد من لجنة الأعدار بالعمادة وإحضاره خلال أسبوعين من تاريخ الغياب.
- الطالب/ة الذي/التي تزيد نسبة غيابه بدون عذر عن ٢٠% من عدد المحاضرات في الفصل الدراسي يعتبر محروماً ويرصد له/ها درجة "محروم" في كشف رصد الدرجات.
- الطالب/ة مسؤول عن كل المادة العلمية التي تم تغطيتها في المحاضرة حتى لو غاب عنها.
- لا يتم إعادة الاختبارات القصيرة نهائياً سواء كان السبب الغياب أو غيره.
- يمنع منعاً باتاً التحدث مع طالب/ة آخر أثناء شرح عضو هيئة التدريس وداخل قاعة الاختبار.
- يجب على الطالب/ة إحضار الكتاب المقرر الذي يمكن الحصول عليه من "مركز بيع الكتب في العمادة"
- على كل طالب/ة تقديم الواجبات والتكليفات في الموعد المحدد لذلك، كما يجب على الطالب/ة التقدم للاختبار بنفسه، إذا حاول/ت الغش سوف يطبق بحق/ها عقوبة الغش ويحال إلى اللجنة المختصة بالعمادة.
- إذا احتاج الطالب/ة إلى خدمات أو رعاية خاصة فعليه مراجعة وحدة الإرشاد الأكاديمي في العمادة وإبلاغهم بذلك.

توزيع مقرر مهارات التعلم على الأسابيع خلال الفصل الدراسي الأول ١٤٣٧/١٤٣٨ هـ

الملاحظات	الموضوع	التاريخ	الأسبوع
	إعداد الخطة التدريسية تنسيق الجداول	من ١٢/١٧ إلى ١٤٣٧/١٢/٢١ هـ من ٩/١٨ إلى ٢٠١٦/٩/٢٢ م	الأول
	لمحة تعريفية موجزة عن مفردات المقرر وآلية تقويم الطالب/ة. رؤية المملكة العربية السعودية ٢٠٣٠ الجلسة الأولى: تعلم كيف تتعلم	من ١٢/٢٤ إلى ١٤٣٧/١٢/٢٨ هـ من ٩/٢٥ إلى ٢٠١٦/٩/٢٩ م	الثاني
	الجلسة الأولى: تعلم كيف تتعلم	من ١/١ إلى ١٤٣٨/١/٥ هـ من ١٠/٢ إلى ٢٠١٦/١٠/٦ م	الثالث
	الجلسة الثانية: التخطيط وإدارة الوقت	من ١/٨ إلى ١٤٣٨/١/١٢ هـ من ١٠/٩ إلى ٢٠١٦/١٠/١٣ م	الرابع
الاختبار النهائي القصير الأول: الإجابة على أصل النسخة الموجودة في نهاية الكتاب المقرر			
	الجلسة الثالثة: عادات العقل	من ١/١٥ إلى ١٤٣٨/١/١٩ هـ من ١٠/١٦ إلى ٢٠١٦/١٠/٢٠ م	الخامس
أ- تطبيق عملي ب- التدريب على طريقة إعداد الورقة البحثية	الجلسة الخامسة : مهارات البحث	من ١/٢٢ إلى ١٤٣٨/١/٢٦ هـ من ١٠/٢٣ إلى ٢٠١٦/١٠/٢٧ م	السادس
الاختبار النهائي القصير الثاني بعد نهاية موضوعات الجلسة الخامسة			
التدريب على طريقة إعداد الورقة البحثية	الجلسة الرابعة : المهارات الست الكبرى لحل المشكلات المعلوماتية	من ١/٢٩ إلى ١٤٣٨/٢/٣ هـ من ١٠/٣٠ إلى ٢٠١٦/١١/٣ م	السابع
أ- العرض التقديمي للورقة البحثية ب- تسليح التطبيق العملي	الجلسة السادسة : استراتيجيات سكامبر في التفكير	من ٢/٦ إلى ١٤٣٨/٢/١٠ هـ من ١١/٦ إلى ٢٠١٦/١١/١٠ م	الثامن



إجازة منتصف الفصل الدراسي الأول
من ٢ / ١١ إلى ١٩ / ٢ / ١٤٣٨ هـ
الموافق من ١١ / ١١ إلى ١٩ / ١١ / ٢٠١٦ م

أ- العرض التقديمي للورقة البحثية	الجلسة السابعة : مهارات الاستذكار	من ٢ / ٢٠ إلى ١٤٣٨/٢/٢٤ هـ من ١١ / ٢٠ إلى ٢٠١٦/١١/٢٤ م	التاسع
أ- تسليم الورقة البحثية ب- آخر موعد لتسليم التطبيق العملي	الجلسة الثامنة : مهارات القراءة	من ٢ / ٢٧ إلى ١٤٣٨/٣/٢ هـ من ١١ / ٢٧ إلى ٢٠١٦/١٢/١ م	العاشر
الاختبار النهائي القصير الثالث بعد نهاية موضوعات الجلسة الثامنة			
آخر موعد لتسليم الورقة البحثية	الجلسة التاسعة : مهارات الكتابة	من ٣ / ٥ إلى ١٤٣٨/٣/٩ هـ من ١٢ / ٤ إلى ٢٠١٦/١٢/٨ م	الحادي عشر
	الجلسة العاشرة : القبعات الست للتفكير	من ٣ / ١٢ إلى ١٤٣٨/٣/١٦ هـ من ١٢ / ١١ إلى ٢٠١٦/١٢/١٥ م	الثاني عشر
	الجلسة الحادية عشر : أدوات برنامج الكورت	من ٣ / ١٩ إلى ١٤٣٨/٣/٢٣ هـ من ١٢ / ١٨ إلى ٢٠١٦/١٢/٢٢ م	الثالث عشر
الاختبار النهائي القصير الرابع بعد نهاية موضوعات المنهج			
	الجلسة الثانية عشر : نظرية الحل الابتكاري للمشكلات (تريز TRIZ)	من ٣ / ٢٦ إلى ١٤٣٨/٣/٣٠ هـ من ١٢ / ٢٥ إلى ٢٠١٦/١٢/٢٩ م	الرابع عشر
	تسليم النتائج النهائية	من ٤ / ٣ إلى ١٤٣٨/٤/٧ هـ من ١ / ١ إلى ٢٠١٧/١/٥ م	الخامس عشر
		من ٤ / ١٠ إلى ١٤٣٨/٤/١٤ هـ من ١ / ٨ إلى ٢٠١٧/١/١٢ م	السادس عشر

وبالله التوفيق





Syllabus

2nd Semester 1437-1438

Course Code	Course Name	Credit Hours	Lec	Lab	Tut.	Pre-requisite
PHYS 072	Physics for Medical Sciences	3	2	0	2	-
Course Coordinator	Dr. Ibrahim F. Al-Hamarneh 71@imamm.org ; ifalhamarneh@imamu.edu.sa office: SR-119					
Class meetings	As scheduled					

Course's Objectives:

- Develop an understanding of the basic concepts of physics,
- Develop problem-solving and critical-thinking skills,
- Learn to integrate and apply various physics concepts to real-life problems and medical applications,
- Develop scientific communication skills.

Text Book: J.W. Kane, M.M. Sterndeim, *Physics*, 3rd Edition, Wiley, 1988.

Website: imamm.org

Grading:

Attendance and Participation	5 %
Homeworks and Quizzes	15 %
1 st Exam	20 %
2 nd Exam	20 %
FINAL Examination	40%
Total	100%

Attendance: Attendance will be taken in the first 5 minutes of the lecture(s). If you came late, you should remind your instructor at the end of the class to consider your attendance for the second lecture, otherwise, you will be marked absent for the two lectures. Accepted excuses for absence should be submitted within two weeks after the absent lectures.



Note :

1. During the semester, the maximum percentage of unexcused absences are less than 25%, student who exceeds 25% will be considered failed.
2. Students are responsible for all materials and information covered each class meeting, even if they were absent.

Classroom Participation: It is expected that you participate in the discussion at lectures by asking and answering questions, raising issues, and making observations and constructive comments.

Cheating and Dishonesty: Each student should write and submit his own work either on exams or on exercises and other course assignments. Any kind of cheating or dishonesty throughout the course is considered a serious offence and will be dealt with strictness and no mercy.

Attention: Don't use your mobile phone throughout lectures, and make sure it is turned-off. Violating this may result in lowering your grad or expelling from the classroom.

Course Policy:

- No assignments will be accepted more than 2 weeks late. They will be penalized 50% for each week late.
- Students are expected to do their own work on assignments and exams.
- Lectures and class notes do not replace textbooks.
- Assessment tests are not allowed to be redone unless a reasonable excuse report is provided. It would be schedule in a specific time.
- Please turn off all mobile devices or set to silent mode during class.
- Eating, drinking, and reading other course materials are NOT allowed during class.

Course Schedule

Weeks	Topics	Hours
No		
1	- <i>Registration and Introduction</i>	3
2	1. Motion 1.1. Motion in One Dimension	3
3	1.2. Scalars & Vectors	3
4	1.3. Motion in Two Dimensions	3
5	1.4. Newton's Laws of Motion 1.5. Applications	3
6	2. Work and Energy 2.1. Work, Energy and Power	3
	Mid Term 1	1
7	2.2. Forms of Energy 2.3. Energy Conversion in the Body 2.4. Applications	3



8	3. Mirrors, Lenses and Imaging Systems 3.1. Flat Mirrors 3.2. Thin Lenses 3.3. Images Formed by Thin Lenses	3
Spring Break		Mid-term Holiday
9	3.4. The Human Eye 3.5. The Optical Defects of the Eye 4. Sound 4.1. The Nature and Speed of Sound	3
10	4.2. Sound Sources - The Human Voice 4.3. Sound Detectors - The Human Ear 4.4. Auditory Response	3
11	5. Heat 5.1. Temperature Scales 5.2. Heat and Internal Energy 5.3. Work and Heat 5.4. Energy Transfer Mechanism in Thermal Processes 5.5. Human Metabolism	3
12	6. Electricity and Electromagnetism 6.1. Electric Charge 6.2. Electrostatic Force - Coulomb's Law 6.3. Electricity 6.4. Electromagnetism 6.5. Medical Applications of Electromagnetism - MRI	3
Mid Term 2		1
13	7. States of Matter and Their Properties 7.1. The Concept and Measurement of Pressure - Blood Pressure 7.2. Fluid Dynamics 7.3. Bernoulli Principle Applied to the Cardiovascular System	3
14	8. Nuclear and Radiation Physics 8.1. The Atomic Nucleus 8.2. Types of Radiations and Radioactivity 8.3. Radiation Damage - Biological Effects of Radiation	3
15	8.4. Some Uses of Radiation 8.5. Some Medical Applications of Nuclear Physics	3
16	Final Examinations	2





Course Syllabus

Health Sciences Stream (ENG 072)

2nd Term, Academic Year 1437/1438

Course Title	English Language for Health Sciences Stream
Course Code	ENG 072 – 14 hours weekly
Required Textbook	<ul style="list-style-type: none">• Objective IELTS(Advanced)- Cambridge University Press• Unlock - Listening and Speaking Skills 4- Cambridge University Press• Medical Terminology- Elsevier Saunders• Cambridge Academic English: Cambridge University Press.
Credit hours: 6	Contact hours: 14
Brief Course Description	
<p>English Language (Grammar) introduces students to university-level English Grammar. Its goal is to enable students to develop all their English skills to a higher level through a greater understanding of Grammar. Attention is paid to complex sentence construction using a variety of syntactical elements.</p> <p>English Language (Listening and Speaking) introduces students to university-level listening and speaking. Its goal is to enable students to build on the skills they have developed through their earlier school years. This course focuses on improving students' abilities in listening comprehension and speaking on prepared subjects as well as spontaneous responses to unexpected statements or questions. When listening, attention is paid to extracting useful information from a dialogue. During speaking exercises the focus is on supporting opinions with facts or logical reasoning.</p> <p>English Language (Study Skills) introduces students to university-level English Vocabulary and methods of acquisition. Its goal is to enable students to become independent learners and develop the ability to enlarge their vocabulary outside of class using methods modeled in the classroom. Attention is paid to practical learning skills such as vocabulary use and using context clues for learning new vocabulary.</p> <p>English Language (IELTS Preparation) is a review course that covers the four skill areas: Listening, Speaking, Reading & Writing. Its goal is to enable students to develop all their English skills to a level of 5.5 on the IELTS exam. . The focus is to prepare students to successfully complete the IELTS exam required for acceptance into the College of Medicine.</p>	
Course Objectives	
Upon successful completion of this course, students should be able to:	
<ol style="list-style-type: none">1. Accurately use grammar in order to effectively interact in conversation.2. Be more creative in using sentence elements in writing.3. Be aware of variations in formal and conversational language .4. Understand more grammatically complex writing.5. Explain the functions of the different elements of sentence structure.6. Understanding the spoken language at normal speed by a native speaker.7. Speak with confidence on a variety of subjects.8. Have a successful outcome on the IELTS exam.9. Utilize an enlarged vocabulary base for reading, writing and conversation.	



10. Express thoughts and opinions about a topic using thematically linked vocabulary.
11. Develop awareness of the components of learning.
12. Assume responsibility for their own progress in education.
13. Strengthen student's study skills in preparation for the IELTS exam.
14. Help each student improve their areas of deficiency.
15. Accustom students to the format and requirements of the IELTS exam.

Course Policy

- **Students are expected to:**

1. Attend all classes except in case of illness or emergency.
2. Prepare for class by completing readings and assigned work in advance.
3. Actively participate in classroom activities.
4. Ask questions if they do not understand.
5. Submit all assignments according to instructions, complete, and on time.
6. Use instructor comments and feedback to improve future work.
7. Cooperate with and act respectfully toward other students and the instructor.
8. Communicate with the instructor about problems or concerns as soon as possible.
9. Put focused and disciplined effort into the course assignments.

- **Attendance**

The university expects students to attend all classes in which they are enrolled. Regular attendance is necessary if individuals are to excel. There is a direct correlation between attendance and academic success. Attendance is mandatory. All students must arrive on time and prepared to learn at each class session. At the instructor's discretion, students may be marked absent if they arrive more than 15 minutes late to any class.

- **Disruptive Behavior**

Disruptive behavior is an activity that interferes with learning and teaching. Inappropriate talking during class, tardiness, cheating, use of cell phone, etc. all disrupt the learning process. Students who are found guilty of disruptive behavior face serious consequences.

- **Academic honesty**

The writing students do in **ENG 072** must be their own. Presenting the work of others, whether it is used without attribution (plagiarism) or submitted by students but written by someone else (cheating), violates the university's policy on academic integrity. Students who are found guilty of plagiarism or cheating face serious consequences. According to the university policy, a largely or fully plagiarized assignment should result in a grade of F for the course.

Grading:

Course Assessment	Marks
Course Work (Class participation and quizzes)	30
Midterm Exam	30
Final Exam	40
Total	100



Course Calendar

Content to be covered:

Week	From	To	Cambridge Academic English (Reading and Writing: (An Integrated Course)	Listening and Speaking (Unlock - Listening and Speaking Skills 4)	Medical Terminology (A Short Course)	IELTS Preparation (Objective IELTS: Cambridge University Press.)
1.	8 / 5 / 1438 5 / 2 / 2017	12 / 5 / 1438 9 / 2 / 2017	Introduction to the Course	Introduction to the Course	Introduction to the Course	Introduction
2.	15 / 5 / 1348 12 / 2 / 2017	19 / 5 / 1438 16 / 2 / 2017	Unit1 : Advertising and critical thinking (p.14-25)	Unit 1: Globalization (p. 14-22)	Unit 1: Basic word structure (pages 1-17)	Unit 1: Information overload (pages 8-13)
3.	22 / 5 / 1438 19 / 2 / 2017	26 / 5 / 1438 23 / 2 / 2017	Unit2 : Innovation and invention (p.26-37)	Unit 1: Globalization (p. 23-31)	Unit 1: Basic word structure (pages 18-46)	Unit 2: Only a game (pages 14-19)
4.	29 / 5 / 1438 26 / 2 / 2017	3 / 6 / 1438 2 / 3 / 2017	Unit 3: Facing challenges (p.42-53)	Unit 2: Education (p. 32-40)	Unit 2: Organization of the body (page 47-49) Appendix 1: Musculoskeletal system (pages 253-262) Digestive system (pages 220-230)	Unit 3: Brands (pages 20-225) Unit4 : Spotlight on communication (pages 26-31)
5.	6 / 6 / 1438 5 / 3 / 2017	10 / 6 / 1438 9 / 3 / 2017	Unit 4:IT in education and business (p.54-65)	Unit 2: Education (p. 41-49)	Appendix 1: Urinary System (pages 285-290) Respiratory System (pages 269-276) Cardiovascular System (pages 216-223)	Unit 5: Is Plastic Fantastic? (pages 34-39) Unit 6: Music Matters(to be discussed with the Dept.) (pages 40-45)
6.	13 / 6 / 1438 12 / 3 / 2017	17 / 6 / 1438 16 / 3 / 2017	Unit 5:Culture, science and society (p.70-81)	Unit 3: Medicine (p. 51-67)	Appendix 1: Lymph System (pages 244-246) Nervous System (pages 263-268) Skin (pages 277-284) Endocrine System (pages 233-237)	Unit 7: Worlds to Explore (pages 46-51) Unit 8: Culinary tools (pages 52-57)
7.	20 / 6 / 1438 19 / 3 / 2017	24 / 6 / 1438 23 / 3 / 2017	Unit 6:Ways of studying in higher education (p.82-93)	Unit 4: Risk (p. 68-85)	Appendix 1: Male Reproductive System (pages 248-252) Female Reproductive System (pages 238-243) Unit 2: Organization of the	Unit 9: Old and new (pages 60-65) Unit 10: In your dreams (pages 66-71)



					body (pages 50-83)	
8.	27 / 6 / 1438 26 / 3 / 2017	2 / 7 / 1438 30 / 3 / 2017	Unit7: Marketing and consumers (p.98-109)	Unit 6: Environment (p. 104-121)	Revision and Midterm Exam	Revision of Units 1-8
Mid-Term Vacation						
9.	12 / 7 / 1438 9 / 4 / 2017	16 / 7 / 1438 13 / 4 / 2017	Revision and Midterm Exam	Unit 7: Architecture (p. 122-139)	Unit 3: Suffixes (pages 86-106)	Unit 11: The physical world (pages 70-75) Unit 12: Nature or nurture? (pages 76-83)
10.	19 / 7 / 1438 16 / 4 / 2017	23 / 7 / 1438 20 / 4 / 2017	Unit 8: Criminology (p.110-121)	Unit 8: Energy (p. 140-157)	Unit 3: Suffixes (pages 107-128)	Unit 13: Cosmic debris (pages 86-89) Unit 14: Trends in Society (pages 92-97)
11.	26 / 7 / 1438 23 / 4 / 2017	1 / 8 / 1438 27 / 4 / 2017	Unit 9: Families and relationships (p.126-137)	Unit 9: Art and Design (p. 158-175)	Unit 4: Prefixes (pages 130-150)	Unit 15: Risk and reality (pages 98-103) Unit 16: The human mind (pages 104-109)
12.	4 / 8 / 1438 30 / 4 / 2017	8 / 8 / 1438 4 / 5 / 2017	Unit 10: Communicating sciences (p.138-149)	Unit 10 : Ageing (p. 176-193)	Unit 4: Prefixes (pages 150-174)	Unit 17: Migration (pages 112-117) Unit 18: The study of literature (pages 118-123)
13.	11 / 8 / 1438 7 / 5 / 2017	15 / 8 / 1438 11 / 5 / 2017	From Unit 2 & 5 : Seminar skills (p.38-41 & p.66-69)	IELTS Past Papers and Questions: Listening and Speaking	Unit 5: Medical Specialists and Case Reports (pages 176-210)	Unit 19: Earning a living (pages 124-129) Unit 20: It's history (pages 130-135)
14.	18 / 8 / 1438 14 / 5 / 2017	22 / 8 / 1438 18 / 5 / 2017	From Unit 6 & 8: Lecture Skills (p.94-97 & 122-125 & 150-153)	IELTS Past Papers and Questions: Listening and Speaking	Intensive Revision + Final Exams Preparation	IELTS Past Papers and Questions
15.	25 / 8 / 1438 21 / 5 / 2017	29 / 8 / 1438 25 / 5 / 2017	REVISION + FINAL EXAMS PREPARATION			
16.	2 / 9 / 1438 28 / 5 / 2017		Final Exams			

Note:

- A two-hour final examination will be scheduled by the Preparatory Year Deanship during the official exam period. More information about the form of this examination will be provided as the term goes on.



Ministry of Higher Education
Al-Imam University
College of Medicine
Pre-Medical Program

Course Name
BIOC 022
Biochemistry II
Semester 2

Al-Imam Mohammed Bin Saud University
College of Medicine
BIOC 022
PREPARATORY YEAR
COURSE GENERAL INFORMATION

1	Course Title & Course Code	Biochemistry II: BIOC 022
2	Credit (Contact hour)	4(2+1+1)
3	Title(s) of program(s) within which the subject is taught.	Preparatory Program
4	Level/year at which the course is offered:	2 nd Semester/ Preparatory Year
5	Prerequisite courses (if any)	BIOC 011
6	Co-requisite courses (if any)	None
7	Name of faculty member responsible for the course.	➤ Prof Dr. Salahuddin Khan
8	Name of faculty member teaching the course	➤ Prof Dr. Salahuddin Khan ➤ Prof Nasr Eldin Elwali ➤ Dr Arezki Azzi



Course Description

Biochemistry plays an important role in the field of medicine. This course is aims to introduce basic structures of major body compounds. The student will review carbohydrates, lipids, protein and nucleic acid structure and the structure function of proteins. The clinical significances of these macromolecules will be examined.

In the laboratory, students will learn basic techniques in biochemistry used for selected macromolecule determination.

General Objectives

At the completion of this course, the student should be able to:

1. Describe the structural and functional characteristics of carbohydrates,
2. Describe clinical importance and clinical correlation of carbohydrates
3. Describe the normal blood sugar levels and relationship of sugar and diabetes
4. Describe the structural and functional characteristics of amino acids: classification based on side chain characteristics and on nutritional requirement
5. Describe clinical importance and clinical correlation of different amino acids
6. Describe the structural and functional characteristics of protein: primary, secondary, tertiary and quaternary structures. Structure of insulin.
7. Describe the denaturation of protein and biochemical analysis
8. Describe the structural and functional characteristics of nucleic acids
9. Describe the interaction between DNA and protein with as an example eukaryotic transcription factors.
10. Describe the structural and functional characteristics and classification of lipids.
11. Describe clinical importance and clinical correlation of lipids
12. Describe lipoprotein and lipid Heart disease relationship
13. Describe vitamins, classify different types of vitamins
14. Describe the role of vitamins in health and diseases
15. Describe the important mineral required in different body functions
16. Describe the and Role of mineral in health and diseases
17. Express an understanding of the general processes of enzymes and enzymes catalyzed reactions: Co-enzymes, active center, kinetics, Michaelis constants.
18. Regulation of enzymatic activity: competitive, noncompetitive inhibition, allosteric inhibition, feedback inhibition and keys enzymes.
19. Describe and evaluate Clinical enzymology
20. Demonstrate knowledge of laboratory techniques used for glucose, protein and lipids determination in biological samples.

Teaching methodology:

- ▶ Lectures
- ▶ Tutorials and laboratory sessions



- Student Assignments
- Student self-directed learning from suggested textbook.

Assessment Methodologies.

In this course the performance will be assessed according to the following methodologies:

1. Quizzes
2. Practical performance.
3. Group work
4. Exams

Parameters	Score
Quiz 1	10 %
Mid-term	20%
Quiz 2	10 %
Laboratory performance	10 %
Assignment	10 %
Final exam	40 %
Total	100 %

Learning Resources

Required Text(s)

Textbook of biochemistry for medical students, 5th or 6th edition, DM Vasudevan, Ed (Jaypee). Online access <http://sdl.edu.sa> user: Imam password: imam321 select ebook: Jaypee and look for the book.


Lippincott's illustrated reviews, Biochemistry. 5th edition. Pamela Champe et al. (LippincottWilliams & Wilkins)



WEEKS	LECTURES (2 hour /week)	TUTORIALS (2 hours /week)	PRACTICALS (2 hours /week)
W1	The Atomic Theory :(Dr. Anis Chudhary)	Electrons, Ions And Bonds: Dr. Anis Chudhary	The Principles Of Energetics Related Biological Reactions: Dr. Nasir Salam
W2	Structural and functional characteristics of carbohydrates Introduction, Biomedical importance. Classification, Configurations and Conformations. Chemistry, Classification and functions of mono and di-saccharides and their derivatives. (Dr Salah Uddin)	Isomerism (Dr Salah Uddin)	General Lab Safety Working with Concentrated acids, bases and electrical equipments Dr. Anis Chudhary
W3	Chemistry, Classification and functions of Oligosaccharides and polysaccharides and their derivatives. (Dr Salah Uddin)	Glycosides and their clinical importance (Dr Salah Uddin)	Spectrophotometry Dr. Nasir Salam
W4	Structural and functional characteristics of amino acids: Amino Acids: Classification, Function and chemical Characteristics of Amino Acids. Peptide bond and characteristics of Peptide bond Dr Arezki	Amino Acid Dr Arezki	Specimen processing for biochemical analysis (Dr Salah Uddin)
W5	Structural and functional characteristics of protein. Classification of Proteins (based on shape, physiochemical properties and functions) Structure of Proteins (Primary to quaternary). Dr Arezki	Quiz number 1: Duration 30 Clinical Perspective And Nutritional requirement of amino acids (Prof Salahuddin)	Estimation of glucose quantity in a biological sample Dr Anis Chaudhary
W6	Structural features of insulin and hemoglobin Denaturation of protein Dr. Arezki	Digestion, absorption of proteins. Prof Elwali	Estimation of protein quantity in a biological sample Dr Nasir Salam
W7	Lipid. 1. Structural and functional characteristics of lipids. Introduction, Biomedical importance. Classification, Configurations and Conformations of Lipids and Triglycerols. Chemistry, Classification and Function of Phosphoglycerides, Spingolipids, Steroids. Chemistry, Classification and Function of Fatty acids. Prof Elwali	Digestion, absorption, secretion, and Utilization of dietary lipids Prof Elwali	Estimation of Lipids quantity in a biologic Prof



Biochemistry (BIOC 022) (PREPARATORY YEAR) Semester 2 (2016)
WEEKLY CONTACT HOURS SCHEDULE 4(2+1+1)

WEEKS	LECTURES (2 hour /week)	TUTORIALS (2 hours /week)	PRACTICALS (2 hours /week)
W8	Lipid. 2 Structural. Chemistry, Classification and Functions of Membrane lipids and Membrane Proteins. Chemistry, Classification and Functions of Compound Lipids & Derived Lipids. Prof Elwali	Biological important lipids Dr Arezki	Midterm Exam
W9	Lipid. 3. Structural and functional characteristics of Prostaglandins Prof Elwali	I mportance of Prostaglandins. (Prof Salahuddin)	Estimation of Blood Urea Dr Anis Chaudhary
W10	Structural and functional characteristics of nucleic acids. Chemistry, classification and characteristics of Purine and Pyrimidine Bases. Chemistry, classification and characteristics of Nucleosides and Nucleotides. Dr Arezki	Bioenergetics The Role of ATP Dr Arezki	DNA Electrophoresis Prof Elwali
W11	Basic Concepts and Classification of Enzymes, Cofactors / Coenzymes & Isozymes. Specificity, Enzyme-Substrate Complex and Active Sites. Enzymes and biological reaction Dr Arezki	Enzymes and Isozymes of Clinical Importance (Prof Salahuddin)	Extraction of DNA From a biological sample Prof Elwali
W12	Factors Affecting Enzyme Activity (pH, Temperature and Substrate Concentration). Regulation of enzymatic activity: Competitive, noncompetitive inhibition, allosteric inhibition, feedback inhibition and Enzymes: Kinetics. (Dr Arezki)	Quiz number 2: Duration 30 min FOR ALL GROUPS	Importance of Biotechnology Prof Elwali
W13	Vitamin 1 Structural and functional characteristics and clinical importance of water soluble vitamins(B Complex). (Prof Salahuddin)	Fat Soluble Vitamins 2 E&K Prof Salahuddin	DSL
W14	Vitamin 2. Structural and functional characteristics and clinical importance of water soluble vitamins(C, Folic Acid &B12). Prof Salahuddin	Fat Soluble Vitamins1 A &D . Prof Salahuddin	DSL
W15	Water and Electrolytes and Acid base balance. Dr Arezki	DSL	
W16	Acid base Disorders Prof Elwali	DSL	



