

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

Course Name  
**BIOC 074**  
Biochemistry II  
Semester 2 (2018-2019)



**Al-Imam Mohammed Bin Saud University**  
**College of Medicine**  
**BIOC 074**  
**PREPARATORY YEAR**  
**Semester 2 (2018-2019)**



## COURSE GENERAL INFORMATION

<b>1</b>	Course Title& Course Code	Biochemistry II: BIOC 074
<b>2</b>	Credit (Contact hour)	<b>4(2+1+1)</b>
<b>3</b>	Title(s) of program(s) within which the subject is taught.	Preparatory Program
<b>4</b>	Level/year at which the course is offered:	2 <sup>nd</sup> Semester/ Preparatory Year
<b>5</b>	Prerequisite courses (if any)	BIOC 074
<b>6</b>	Co-requisite courses (if any)	None
<b>7</b>	Name of faculty member responsible for the course.	<b>Prof Dr. Salahuddin Khan</b>
<b>8</b>	Name of faculty member teaching the course	<ul style="list-style-type: none"> <li>➤ Prof Dr. Salahuddin Khan</li> <li>➤ Prof Nasr EldinElwali</li> <li>➤ Dr ArezkiAzzi</li> <li>➤ Dr. Anis Chaudhary</li> <li>➤ Dr. Nasir Salam</li> <li>➤ Muhammad Al Zahrani</li> </ul>

### 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

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

➤ **Group1: 501& 502. Prof Dr. Salah Uddin Khan, Dr ArezkiAzzi & Dr. Anis Chaudhary**

➤ **Group2: 503& 504. Prof Nasr EldinElwali, Muhammad Al Zahrani & Dr. Nasir Salam**



**Group1: 501& 502.**

**Prof Dr. Salah Uddin Khan, Dr ArezkiAzzi & Dr. Anis Chaudhary**

**Biochemistry (BIOC 022) (PREPARATORY YEAR) Semester 2 (2017)**

**WEEKLY CONTACT HOURS SCHEDULE4(2+1+1)**

WEEKS	LECTURES (2 hour /week)	TUTORIALS (2 hours /week)	PRACTICALS (2 hours /week)
<b>W3</b> 20/01/2019	<b>The Atomic Theory: Dr. Anis Chaudhary</b>	<b>Electrons, Ions And Bonds: Dr. Anis Chaudhary</b>	<b>The Principles Of Energetics Related Biological Reactions: Dr. Anis Chaudhary</b>
<b>W4</b> 27/01/2019	<b>Structural and functional characteristics of carbohydrates</b> Introduction, Biomedical importance. Classification, Configurations and Conformations. Chemistry, Classification and functions of mono and disaccharides and their derivatives. <b>(Prof. Salah Uddin)</b>	Isomerism <b>(Prof. Salah Uddin)</b>	General Lab Safety & Spectrophotometry <b>Dr. Arezki</b>
<b>W5</b> 03/02/2019	Chemistry, Classification and functions of Oligosaccharides and polysaccharides and their derivatives. <b>(Prof. Salah Uddin)</b>	Glycosides and their clinical importance <b>(Dr. Salah Uddin)</b>	Qualitative tests of Carbohydrate <b>Dr. Anis Chaudhary</b>

<b>W6</b> 10/02/2019	<b>Structural and functional characteristics of amino acids:</b> Amino Acids: Classification, Function and chemical Characteristics of Amino Acids. Peptide bond and characteristics of Peptide bond <b>(Prof. Salah Uddin)</b>	<b>Amino Acid (Prof. Salah Uddin)</b>	<b>Quiz number 1 All Groups Duration 45 Thursday 9 to 10 College Of Medicine</b>
<b>W7</b> 17/02/2019	<b>Structural and functional characteristics of protein.</b> Classification of Proteins (based on shape, physiochemical properties and functions) Structure of Proteins (Primary to quaternary). <b>Dr. Arezki</b>	Clinical Perspective And Nutritional requirement of amino acids <b>(Prof. Salah Uddin)</b>	Qualitative tests of Protein & Amino Acids <b>Dr. Anis Chaudhary</b>
<b>W8</b> 24/02/2019	Structural features of insulin and hemoglobin Denaturation of protein <b>Dr. Arezki</b>	Digestion, absorption of proteins. <b>Dr. Arezki</b>	Specimen processing for biochemical analysis <b>Dr. Arezki</b>
<b>W9</b> 03/03/2019	<b>Lipid. 1. Structural and functional characteristics of lipids.</b> 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. <b>(Prof. Salah Uddin)</b>	Digestion, absorption, secretion, and Utilization of dietary lipids <b>(Prof. Salah Uddin)</b>	Estimation of g <sup>1</sup> in a biologi <b>Dr. A</b>



WEEKS	LECTURES (2 hour /week)	TUTORIALS (2 hours /week)	PRACTICALS (2 hours /week)
<b>W10</b> 10/03/2019	<b>Lipid. 2 Structural.</b> Chemistry, Classification and Functions of Membrane lipids and Membrane Proteins. Chemistry, Classification and Functions of Compound Lipids & Derived Lipids. ( <b>Prof. Salah Uddin</b> )	<b>Biological important lipids</b> ( <b>Prof. Salah Uddin</b> )	<b>Midterm Exam</b> <b>Thursday 8 to 10</b> <b>College Of Medicine</b>
<b>W11</b> 17/03/2019	<b>Lipid. 3.</b> Structural and functional characteristics of Prostaglandins ( <b>Prof. Salah Uddin</b> )	<b>Importance of Prostaglandins.</b> ( <b>Prof. Salah Uddin</b> )	Estimation of protein quantity in a biological sample <b>Dr. Anis Chaudhary</b>
<b>W12</b> 24/03/2019	<b>Structural and functional characteristics of nucleic acids.</b> Chemistry, classification and characteristics of Purine and Pyrimidine Bases. Chemistry, classification and characteristics of Nucleosides and Nucleotides. <b>Dr. Arezki</b>	DNA Electrophoresis <b>Dr. Arezki</b>	Extraction of DNA from a biological sample <b>Dr. Arezki</b>
<b>W13</b> 31/03/2019	Basic Concepts and Classification of Enzymes, Cofactors / Coenzymes & Isozymes. Specificity, Enzyme-Substrate Complex and Active Sites. Enzymes and biological reaction <b>Dr. Arezki</b>	Enzymes and Isozymes of Clinical Importance ( <b>Prof. Salah Uddin</b> )	<b>Quiz number 1 All Groups Duration 45</b> <b>Thursday 9 to 10</b> <b>College Of Medicine</b>
<b>W14</b> 07/04/2019	Factors Affecting Enzyme Activity (pH, Temperature and Substrate Concentration). Regulation of enzymatic activity: Competitive, noncompetitive inhibition, allosteric inhibition, feedback inhibition and Enzymes: Kinetics. <b>Dr. Arezki</b>	Importance of Biotechnology <b>Dr. Arezki</b>	ELISA <b>Dr. Arezki</b>
<b>W15</b> 14/04/2019	<b>Vitamin 1</b> Structural and functional characteristics and clinical importance of water soluble vitamins (B Complex). ( <b>Prof. Salah Uddin</b> )	Vitamin 2. Structural and functional characteristics and clinical importance of water soluble vitamins (C, Folic Acid & B12). ( <b>Prof. Salah Uddin</b> )	<b>Vitamin 2</b> Fat Soluble Vitamins <b>Prof. Salah Uddin</b>
<b>W 16</b>	<b>Final Exam</b>		



**Group2: 503& 504.**

**Prof Nasr EldinElwali, Muhammad Al Zahrani & Dr. Nasir Salam**  
**Biochemistry (BIOC 022) (PREPARATORY YEAR) Semester 2 (2017)**  
**WEEKLY CONTACT HOURS SCHEDULE4(2+1+1)**

WEEKS	LECTURES (2 hour /week)	TUTORIALS (2 hours /week)	PRACTICALS (2 hours /week)
<b>W3</b> 20/01/2019	<b>The Atomic Theory: Dr. Nasir Salam</b>	<b>Electrons, Ions And Bonds: Dr. Nasir Salam</b>	<b>The Principles of Energetics Related Biological Reactions: Dr. Nasir Salam</b>
<b>W4</b> 27/01/2019	<b>Structural and functional characteristics of carbohydrates</b> Introduction, Biomedical importance. Classification, Configurations and Conformations. Chemistry, Classification and functions of mono and di-saccharides and their derivatives. <b>(Prof Nasreldin Elwali)</b>	Isomerism <b>(Prof Nasreldin Elwali)</b>	General Lab Safety & Spectrophotometry <b>Muhammad Al Zahrani</b>
<b>W5</b> 03/02/2019	Chemistry, Classification and functions of Oligosaccharides and polysaccharides and their derivatives. <b>(Prof Nasreldin Elwali)</b>	Glycosides and their clinical importance <b>Muhammad Al Zahrani</b>	Qualitative tests of Carbohydrate <b>Dr. Nasir Salam</b>

<b>W6</b> 10/02/2019	<b>Structural and functional characteristics of amino acids:</b> Amino Acids: Classification, Function and chemical Characteristics of Amino Acids. Peptide bond and characteristics of Peptide bond <b>(Prof Nasreldin Elwali)</b>	<b>Amino Acid (Prof Nasreldin Elwali)</b>	<b>Quiz number 1 All Groups Duration 45 Thursday 9 to 10 College Of Medicine</b>
<b>W7</b> 17/02/2019	<b>Structural and functional characteristics of protein.</b> Classification of Proteins (based on shape, physiochemical properties and functions) Structure of Proteins (Primary to quaternary). <b>Muhammad Al Zahrani</b>	Clinical Perspective And Nutritional requirement of amino acids <b>(Prof Nasreldin Elwali)</b>	Qualitative tests of Protein & Amino Acids <b>Dr. Nasir Salam</b>
<b>W8</b> 24/02/2019	Structural features of insulin and hemoglobin Denaturation of protein <b>Muhammad Al Zahrani</b>	Digestion, absorption of proteins. <b>Muhammad Al Zahrani</b>	Specimen processing for biochemical analysis <b>Muhammad Al Zahrani</b>
<b>W9</b> 03/03/2019	<b>Lipid. 1. Structural and functional characteristics of lipids.</b> 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. <b>(Prof Nasreldin Elwali)</b>	Digestion, absorption, secretion, and Utilization of dietary lipids <b>(Prof Nasreldin Elwali)</b>	Estimation of g <sup>1</sup> in a biologi <b>Muhammad</b>



WEEKS	LECTURES (2 hour /week)	TUTORIALS (2 hours /week)	PRACTICALS (2 hours /week)
<b>W10</b> 10/03/2019	<b>Lipid. 2 Structural.</b> Chemistry, Classification and Functions of Membrane lipids and Membrane Proteins. Chemistry, Classification and Functions of Compound Lipids & Derived Lipids. ( <b>Prof Nasreldin Elwali</b> )	<b>Biological important lipids</b> ( <b>Prof Nasreldin Elwali</b> )	<b>Midterm Exam</b> <b>Thursday 8 to 10</b> <b>College Of Medicine</b>
<b>W11</b> 17/03/2019	<b>Lipid. 3.</b> Structural and functional characteristics of Prostaglandins ( <b>Prof Nasreldin Elwali</b> )	<b>Importance of Prostaglandins.</b> ( <b>Prof Nasreldin Elwali</b> )	Estimation of protein quantity in a biological sample <b>Dr. Nasir Salam</b>
<b>W12</b> 24/03/2019	<b>Structural and functional characteristics of nucleic acids.</b> Chemistry, classification and characteristics of Purine and Pyrimidine Bases. Chemistry, classification and characteristics of Nucleosides and Nucleotides. <b>Muhammad Al Zahrani</b>	DNA Electrophoresis <b>Muhammad Al Zahrani</b>	Extraction of DNA from a biological sample <b>Muhammad Al Zahrani</b>
<b>W13</b> 31/03/2019	Basic Concepts and Classification of Enzymes, Cofactors / Coenzymes & Isozymes. Specificity, Enzyme-Substrate Complex and Active Sites. Enzymes and biological reaction <b>Muhammad Al Zahrani</b>	Enzymes and Isozymes of Clinical Importance ( <b>Prof Nasreldin Elwali</b> )	<b>Quiz number 1 All Groups Duration 45</b> <b>Thursday 9 to 10</b> <b>College Of Medicine</b>
<b>W14</b> 07/04/2019	Factors Affecting Enzyme Activity (pH, Temperature and Substrate Concentration). Regulation of enzymatic activity: Competitive, noncompetitive inhibition, allosteric inhibition, feedback inhibition and Enzymes: Kinetics. <b>Muhammad Al Zahrani</b>	Importance of Biotechnology <b>Muhammad Al Zahrani</b>	ELISA <b>Muhammad Al Zahrani</b>
<b>W15</b> 14/04/2019	<b>Vitamin 1</b> Structural and functional characteristics and clinical importance of water soluble vitamins (B Complex). ( <b>Prof Nasreldin Elwali</b> )	Vitamin 2. Structural and functional characteristics and clinical importance of water soluble vitamins (C, Folic Acid & B12). ( <b>Prof Nasreldin Elwali</b> )	<b>Vitamin 2</b> Fat Soluble Vitamins <b>Prof Nasreldin Elwali</b>
<b>W 16</b>	<b>Final Exam</b>		





## **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.

## **Learning Resources**

### **Required Text(s)**

- Textbook of biochemistry for medical students, 5<sup>th</sup> or 6<sup>th</sup> edition, DM Vasudevan, Ed (Jaypee). Online access [http: sdl.edu.sa](http://sdl.edu.sa) user: Imam password: imam 321 select ebook: Jaypee and look for the book.
- Lippincott's illustrated reviews, Biochemistry. 5<sup>th</sup> edition. Pamela Champe et al. (Lippincott Williams & Wilkins)

### **Contact Name and Number:**

**Prof Dr. Salahuddin Khan**  
**[Drsalahuddin2002@yahoo.com](mailto:Drsalahuddin2002@yahoo.com)**  
**# 0599175442**





**Course Syllabus**  
**Health Sciences Stream (ENG 073)**  
1<sup>st</sup> Term, Academic Year 1439/1440

Course Title	English Language for Health Sciences Stream
Course Code	ENG 073 – 16 hours weekly
Required Textbook	<ul style="list-style-type: none"><li>• <b>Grammar for IELTS</b> - Cambridge University Press</li><li>• <b>Unlock - Listening and Speaking Skills 3- Cambridge Press</b></li><li>• <b>Career Paths - Medical - Express Publishing</b></li><li>• <b>Objective IELTS:</b> Cambridge University Press.</li></ul>
Credit hours: 8	Contact hours: 16
<b>Brief Course Description</b>	
<p><b>English Language (Grammar)</b> 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><b>English Language (Listening and Speaking)</b> 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><b>English Language (Study Skills)</b> 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><b>English Language (IELTS Preparation)</b> is a review course that covers the four skill areas: Listening, Speaking, Reading &amp; 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>	
<b>Course Objectives</b>	
Upon successful completion of this course, students should be able to:	
<ol style="list-style-type: none"><li>1. Accurately use grammar in order to effectively interact in conversation.</li><li>2. Be more creative in using sentence elements in writing.</li><li>3. Be aware of variations in formal and conversational language .</li><li>4. Understand more grammatically complex writing.</li><li>5. Explain the functions of the different elements of sentence structure.</li><li>6. Understanding the spoken language at normal speed by a native speaker.</li><li>7. Speak with confidence on a variety of subjects.</li><li>8. Have a successful outcome on the IELTS exam.</li></ol>	



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 073** 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	<b>Grammar</b> (Grammar for IELTS)	<b>Listening and Speaking</b> (Unlock - Listening and Speaking Skills 3)	<b>Medical Vocabulary</b> (Career Paths - Medical)	<b>IELTS Preparation</b> (Objective IELTS: Cambridge University Press.)
1.	22 / 12 / 1439 2 / 9 / 2018	26 / 12 / 1439 6 / 9 / 2018	<b>Introduction to the Course</b>	<b>Introduction to the Course</b>	<b>Introduction to the Course</b>	<b>Introduction</b>
2.	29 / 12 / 1439 9 / 9 / 2018	3 / 1 / 1440 13 / 9 / 2018	<b>Unit 1: Present Tenses</b>	<b>Unit 1: Animals (p. 14-24)</b>	<b>Unit 1: Hospital Departments Unit 2: Hospital Staff Unit 3: Hospital Equipment</b>	<b>Unit 1: Communicate (pages 8-11)</b>
3.	6 / 1 / 1440 16 / 9 / 2018	10 / 1 / 1440 20 / 9 / 2018	<b>Unit 2: Past Tenses 1</b>	<b>Unit 1: Animals (p. 25-31)</b>	<b>Unit 4: Parts of the Body 1 Unit 5: Parts of the Body 2 Unit 6: Parts of the Body 3</b>	<b>Unit 2: A healthy diet (pages 12-15)</b>
4.	14 / 1 / 1440 24 / 9 / 2018	17 / 1 / 1440 27 / 9 / 2018	<b>Unit 3: Present Perfect</b>	<b>Unit 2: Customs and Traditions (p. 32-41)</b>	<b>Unit 7: Respiratory System Unit 8: Circulatory System Unit 9: Digestive System</b>	<b>Unit 3: City attractions (pages 16-20) Unit 4: Ways of learning (pages 21-31)</b>
5.	20 / 1 / 1440 30 / 9 / 2018	24 / 1 / 1440 4 / 10 / 2018	<b>Unit 4: Past Tenses 2</b>	<b>Unit 2: Customs and Traditions (p. 42-49)</b>	<b>Unit 10: First Aid Unit 11: Common Abbreviations Unit 12: Measurements</b>	<b>Unit 5: Discovering the past (pages 32-36) Unit 6: What is job satisfaction? (pages 37-40)</b>
6.	27 / 1 / 1440 7 / 10 / 2018	2 / 2 / 1440 11 / 10 / 2018	<b>Unit 5: Future 1</b>	<b>Unit 3: History (p. 50-67)</b>	<b>Unit 13: Administering Medication Unit 14: Describing Frequency Unit 15: Maintaining Hygiene</b>	<b>Unit 7: Selling dreams? (pages 41-45) Unit 8: Time to waste? (pages 46-56)</b>
7.	5 / 2 / 1440 14 / 10 / 2018	9 / 2 / 1440 18 / 10 / 2018	<b>Unit 6: Future 2</b>	<b>Unit 4: Transport (p. 68-85)</b>	<b>Review of Book 1</b>	<b>Unit 9: Climate change (pages 57-60) Unit 10: A place to work or live in (pages 61-64)</b>



8.	12 / 2 / 1440 21 / 10 / 2018	16 / 2 / 1440 25 / 10 / 2018	Revision and Midterm Exam	Revision and Midterm Exam	Revision and Midterm Exam	Revision and Midterm Exam
9.	19 / 2 / 1440 28 / 10 / 2018	23 / 2 / 1440 1 / 11 / 2018	Unit 13: Modals 1	Unit 5: Environment (p. 86-103)	Unit 1: Blood Unit 2: Bones Unit 3: Skin	Unit 11: Animal life (pages 65-68) Unit 12: Sport, just for fun? (pages 69-79)
10.	26 / 2 / 1440 4 / 11 / 2018	30 / 2 / 1440 8 / 11 / 2018	Unit 14: Modals 2	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.	3 / 3 / 1440 11 / 11 / 2018	7 / 3 / 1440 15 / 11 / 2018	Unit 15: Reported speech	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.	10 / 3 / 1440 18 / 11 / 2018	14 / 3 / 1440 22 / 11 / 2018	Unit 16: Verb Patterns	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.	17 / 3 / 1440 25 / 11 / 2018	21 / 3 / 1440 28 / 11 / 2018	Unit 17: Likelihood based on conditionals 1 Unit 18: Likelihood based on conditionals 2	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.	24 / 3 / 1440 2 / 12 / 2018	28 / 3 / 1440 6 / 12 / 2018	Review book 2(Medical Vocabulary) +REVISION + FINAL EXAMS PREPARATION			
15.	2 / 4 / 1440 9 / 12 / 2018		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.





## Course Syllabus

### Health Sciences Stream (ENG 074)

2nd Term, Academic Year 1439/1440

Course Title	English Language for Health Sciences Stream
Course Code	ENG 074 – 16 hours weekly
Required Textbook	<ul style="list-style-type: none"><li>• <b>Objective IELTS(Advanced)</b>- Cambridge University Press</li><li>• <b>Unlock - Listening and Speaking Skills 4</b>- Cambridge University Press</li><li>• <b>Medical Terminology</b>- Elsevier Saunders</li><li>• <b>Cambridge Academic English</b>: Cambridge University Press.</li></ul>
Credit hours: 8	Contact hours: 16
<b>Brief Course Description</b>	
<p><b>English Language (Grammar)</b> 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><b>English Language (Listening and Speaking)</b> 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><b>English Language (Study Skills)</b> 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><b>English Language (IELTS Preparation)</b> is a review course that covers the four skill areas: Listening, Speaking, Reading &amp; 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>	
<b>Course Objectives</b>	
Upon successful completion of this course, students should be able to:	
<ol style="list-style-type: none"><li>1. Accurately use grammar in order to effectively interact in conversation.</li><li>2. Be more creative in using sentence elements in writing.</li><li>3. Be aware of variations in formal and conversational language .</li><li>4. Understand more grammatically complex writing.</li><li>5. Explain the functions of the different elements of sentence structure.</li><li>6. Understanding the spoken language at normal speed by a native speaker.</li><li>7. Speak with confidence on a variety of subjects.</li><li>8. Have a successful outcome on the IELTS exam.</li><li>9. Utilize an enlarged vocabulary base for reading, writing and conversation.</li><li>10. Express thoughts and opinions about a topic using thematically linked vocabulary.</li></ol>	



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 074** 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	<b>Cambridge Academic English</b> (Reading and Writing: (An Integrated Course)	<b>Listening and Speaking</b> (Unlock - Listening and Speaking Skills 4)	<b>Medical Terminology</b> (A Short Course)	<b>IELTS Preparation</b> (Objective IELTS: Cambridge University Press.)
1.	Introduction to the Course	Introduction to the Course	Introduction to the Course	Introduction
2.	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.	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.	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.	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.	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.	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 body (pages 50-83)	Unit 9: Old and new (pages 60-65) Unit 10: In your dreams (pages 66-71)
8.	Unit7: Marketing and consumers (p.98-109)	Unit 6: Environment (p. 104-121)	Revision and Midterm Exam	Revision of Units 1-8
9.	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.	Unit 8: Criminology (p. 110-121)	Unit 8: Energy (p. 140-157)	Unit 3: Suffixes (pages 107-128)	Unit 13: C (pages 86-





				Unit 14: Trends in Society (pages 92-97)
11.	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.	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.	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.	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.	REVISION + FINAL EXAMS PREPARATION			
16.	REVISION + FINAL EXAMS PREPARATION			

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.





## Course Syllabus 1st Semester 1439/1440

Course Number	Course name	Credit Hours	Communication Hours
BIO 072	GENERAL BIOLOGY	3	4
Prepared by:	Dr. Basiony Fouad	Dr. Waleed Eltantawy	
Mobile			
e-mail:	Dr.basiony_fouad@yahoo.com		

### 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- Describe the structure of eukaryotic and prokaryotic cell.
- 3- Describe how cell structures are adapted to their functions and explain the process of cell growth and division.
- 4- Analyze how cellular information is passed from one generation to another in particular the structure of DNA and how it functions in genetic inheritance.
- 5- Describe natural selection and explain how populations evolve to form new species.
- 6- Distinguish bacteria from viruses.
- 7- Describe the types of humane tissues and systems.
- 8- Understand the basis of immunity and types of immunoglobulins.
- 9- Define characteristics and traits of animals including how they collect information about their environments and interact with it and other organisms.

### Text Book:

- Campbell, 3. Wasserman, S.A., Reece, J.B. and etal.,–Pearson Biology 11th ed. (2017); international edition. ISBN-13: 978-1-292-17043-5.
- Campbell, 3. Wasserman, S.A., Reece, J.B. and etal.,–Pearson Biology 10th ed. (2017); international edition. ISBN-13: 978-1-292-17043-5
- Human Biology, Daniel D. Chiras, (2010). Jones & Bartlett Learning; 7 edition (December 23).

### Grading:

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

### 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.



## Course schedule (by Weeks):

No of Weeks	Lecture topics	Contact hours
W1 2/9/2018	<ul style="list-style-type: none"> <li>▪ Introduction</li> <li>▪ Characteristics of life - properties of living matter, differences between living and nonliving matter</li> </ul>	4
W2 9/9/2018	<ul style="list-style-type: none"> <li>▪ <b>Fundamental Biology Skills and Knowledge:</b> <ul style="list-style-type: none"> <li>- Water's properties, Acids ,bases and buffers</li> <li>- The importance of pH to living organisms</li> </ul> </li> </ul>	4
W3 16/9/2018	<ul style="list-style-type: none"> <li>▪ <b>Macromolecules :</b> <ul style="list-style-type: none"> <li>- Carbohydrates – Lipids</li> <li>- Proteins- Nucleic acids</li> </ul> </li> </ul>	4
<b>W4 - Quiz 1</b>		
W4 23/9/2018	Cell structure and function	2
W5 30/9/2018	<ul style="list-style-type: none"> <li>▪ Cell membrane</li> <li>▪ Cell division ( Mitosis)</li> </ul>	4
W6 7/10/2018	<ul style="list-style-type: none"> <li>▪ Cell division (Meiosis )</li> <li>▪ Linkage and chromosomes</li> <li>▪ Genetic diseases</li> </ul>	4
W7 14/10/2017	<ul style="list-style-type: none"> <li>▪ Nucleic acid and inheritance</li> <li>▪ review</li> </ul>	2
<b>W8 - 21/10/2018 -- Mid-term Exam</b>		
W9 28/10/2018	<ul style="list-style-type: none"> <li>▪ Types of Tissues in human body</li> <li>▪ Enzymes and their roles</li> </ul>	4
W10-4/11/2018	<ul style="list-style-type: none"> <li>▪ Photosynthesis, cellular respiration and fermentation.</li> </ul>	4
W11 - 11/11/2018	<ul style="list-style-type: none"> <li>▪ Human Systems: Digestive and Circulatory system</li> </ul>	4
W12 - 18/11/2018	<ul style="list-style-type: none"> <li>▪ Human Systems: Respiratory and Nervous system</li> </ul>	4
W13 - 25/11/2018	<ul style="list-style-type: none"> <li>▪ Human Systems: Endocrine, excretory and reproductive system</li> </ul>	2
<b>W13 - Quiz 2</b>		
W14 2/12/2018	<ul style="list-style-type: none"> <li>▪ Types of immunities in human</li> <li>▪ Structures and types of immunoglobulins.</li> </ul>	4
W15 9/12/2018	<ul style="list-style-type: none"> <li>▪ Classification of bacteria and some related diseases</li> <li>▪ Types of body fluids</li> </ul>	
<b>W16 - 16/12/2018 - Final Exam</b>		





**Deanship of Preparatory Programs**

**Course Syllabus  
First Term 1439/1440**

Course Number:	Course name :	credit hours :	Communication hours
CS 073	Computer Skills For Preparatory Programs "Medical Track"	2	3
<b>Prepared by:</b>	Osama Mohamed Abdalla Yousif		
<b>e-mail:</b>	Omyousif@imamu.edu.sa		

**Course's Objectives:** This is an introductory course in the first semester of the preparatory program in **Medical 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](http://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.

**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.





**Deanship of Preparatory Programs**

**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 2016 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:**

No	Weeks		Lecture Topics	Sections	Hours	(SL)	Exams
	From	To					
1	02/09/2018	06/09/2018	Introduction Chapter 1 : Looking at Computers Understanding the Parts	-Understanding Your Computer -Input Devices - Output Devices	3		
	22/12/1439	26/12/1439					
2	09/09/2018	13/09/2018	Chapter 1 : Looking at Computers Understanding the Parts	-Processing and Memory on the Motherboard -Storing Data and Information - Connecting Peripherals to the Computer - Power Management and Ergonomics -Review and questions	1		
	29/12/1439	03/01/1440			2		
3	16/09/2018	20/09/2018	Chapter 2 : System Software: The Operating System, Utility Programs, and File Management	-Operating system fundamentals -What the operating system Does -Starting your computer	3		Quiz1 (5marks)
	06/01/1440	11/01/1440					





**Deanship of Preparatory Programs**

4	23/09/2018 13/01/1440	27/09/2018 17/01/1440	<b>Chapter 2 : System Software: The Operating System, Utility Programs, and File Management</b>	-The Windows interface -File Management -Utility Programs -Review and questions	3			
5	30/09/2018 20/01/1440	04/10/2018 24/01/1440	<b>Chapter 3 Application Software: Programs That Let You Work and Play</b>	-Software Basics -Managing Your Software -Productivity and Business Software -Multimedia and Educational Software	3			
6	07/10/2018 27/01/1440	11/10/2018 02/02/1440	<b>Chapter 4 : Networks : Connecting Computing Devices</b>	-Networking Fundamentals -Network Architectures -Network Components -Connecting to the Internet	3			
7	14/10/2018 05/02/1440	18/10/2018 09/02/1440	<b>Chapter 4 : Networks : Connecting Computing Devices</b>	-Installing and Configuring home networking -Managing and securing wireless networks	3		Quiz2 (5marks)	
8	21/10/2018 12/02/1440	25/10/2018 16/02/1440	<b>Mid-term Exam (20 Marks)</b>					
9	28/10/2018 19/02/1440	01/11/2018 23/02/1440	<b>Chapter 5 : Using the Internet: Making the Most Of the Web's Resources</b>	-the internet and how it works -Collaborating and Communicating on the Web -Conducting Business on the Web	3			
10	04/11/2018 26/02/1440	08/11/2018 30/02/1440	<b>Chapter 5 : Using the Internet: Making the Most Of the Web's Resources</b>	-Accessing and Moving Around the Web -Searching the Web Effectively -Using the Web Ethically	3	SL 15 marks		
	11/11/2018 03/03/1440	15/11/2018 07/03/1440	<b>Chapter 5 : Behind the Scenes: How the Internet Works</b>	-Internet Management and Networking -Internet Identity -Web Technologies -Communications Over the Internet	3			





**Deanship of Preparatory Programs**

12	18/11/2018 10/03/1440	22/11/2018 14/03/1440	<b>Chapter 6 : Securing Your System: Protecting Your Digital Data and Devices</b>	-Identity Theft and Hackers -Computer Viruses -Online Annoyance and Social Engineering	3		
13	25/11/2018 17/03/1440	29/11/2018 21/03/1440	<b>Chapter 6 : Securing Your System: Protecting Your Digital Data and Devices</b>	-Restricting Access to Your Digital Assets -Keeping Your Data Safe -Protecting Your Physical Computing Assets	3		
14	02/12/2018 24/03/1440	06/12/2018 28/03/1440	<b>Review and questions</b>		3	<b>Quiz 3 (5 marks)</b>	
15	09/12/2018 02/04/1440	13/12/2018 06/04/1440	<b>Final Exam (40 marks)</b>				





## Syllabus

2<sup>nd</sup> Semester

Course Code	Course Name	Credit Hours	Lec	Lab	Tut.	Pre-requisite
PHYS 021	Physics for Medical Sciences	3	2	0	2	-
<b>Course Coordinator</b>	office: SR-119					
<b>Class meetings</b>	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*, 3<sup>rd</sup> Edition, Wiley, 1988.

**Website:** imamm.org

### Grading:

Attendance and Participation	5 %
Homeworks and Quizzes	15 %
1 <sup>st</sup> Exam	20 %
2 <sup>nd</sup> Exam	20 %
<b>FINAL Examination</b>	<b>40%</b>
<b>Total</b>	<b>100%</b>

**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 and Dates	Topics	Hours
No		
1	- <i>Registration and Introduction</i>	3
2	<b>1. Motion</b> 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	<b>2. Work and Energy</b> 2.1. Work, Energy and Power	3
	<b>Mid Term 1</b>	1



7	2.2. Forms of Energy 2.3. Energy Conversion in the Body 2.4. Applications	3
8	<b>3. Mirrors, Lenses and Imaging Systems</b> 3.1. Flat Mirrors 3.2. Thin Lenses 3.3. Images Formed by Thin Lenses	3
<b>Spring Break</b>		<b>Mid-term Holiday</b>
9	3.4. The Human Eye 3.5. The Optical Defects of the Eye <b>4. Sound</b> 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	<b>5. Heat</b> 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	<b>6. Electricity and Electromagnetism</b> 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
<b>Mid Term 2</b>		<b>1</b>
13	<b>7. States of Matter and Their Properties</b> 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	<b>8. Nuclear and Radiation Physics</b> 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	<b>Final Examinations</b>	<b>2</b>



## الخطة التدريسية Syllabus Distribution الفصل الدراسي الأول 1440/1439 هـ

رمز المقرر	اسم المقرر	عدد الساعات المعتمدة	عدد ساعات الاتصال	المتطلب السابق
012/ وصل /013 وصل /014 وصل /040 وصل /071 وصل	مهارات الاتصال	1	2	لا يوجد
مشرف المقرر	وليد عطيه الزهراني walzahrani@imamu.edu.sa			
وقت المحاضرة	حسب الجدول	مكان المحاضرة	حسب الجدول	

### أهداف المقرر:

- التعرف على مفهوم الاتصال وآدابه 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 1440 هـ.

**آلية التقويم:** الجدول التالي يوضح توزيع الدرجات لهذا المقرر:

الدرجة	آلية التقويم
10 درجات	الحضور
10 درجات	المشاركة والتفاعل
20 درجة	التطبيقات الميدانية ( الزيارات الميدانية أو الأعمال التطوعية )
10 درجات	واجب منزلي موجود آخر الكتاب الدراسي
50 درجة	الاختبارات القصيرة : ( 2 اختبارات فعلية كل اختبار 25 درجة )
100 درجة	المجموع

### تعليمات:

- الحضور إلزامي لهذا المقرر، وسوف يتم التحضير في بداية أول 5 دقائق من بدء المحاضرة.
- إذا وصلت نسبة غياب الطالب/ة 20% 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 الغش سوف يطبق بحقه/ها عقوبة الغش ويحال إلى اللجنة المختصة بالعمادة.
- 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 1439/1440هـ:

الموضوع	التاريخ	الأسبوع
استقبال الطلاب	2018 / 09 / 02 1439 / 12 / 22	الأول
الاتصال: أهميته، عناصره، بيئته	2018 / 09 / 09 1439 / 12 / 29	الثاني
الاتصال اللفظي وغير اللفظي + الاتصال الفردي والجماعي	2018 / 09 / 16 1440 / 01 / 06	الثالث
مهارات التواصل الذاتي.	2018 / 09 / 23 1440 / 01 / 13	الرابع
مهارة تطوير الذات.	2018 / 09 / 30 1440 / 01 / 20	الخامس
الاختبار الأول + توزيع المجموعات للبحث العلمي والعمل التطوعي وأليته	2018 / 10 / 07 1440 / 01 / 27	السادس
مهارة الاستماع + مهارة الحديث	2018 / 10 / 14 1440 / 02 / 05	السابع
مهارة التواصل في البيئة الجامعية	2018 / 10 / 21 1440 / 02 / 12	الثامن
مهارة التواصل الالكتروني	2018 / 10 / 28 1440 / 02 / 19	التاسع
مهارة القيادة والتأثير	2018 / 11 / 04 1440 / 02 / 26	العاشر
الاختبار الثاني + استلام الأعمال والتكاليف	2018 / 11 / 11 1440 / 03 / 03	الحادي عشر
مهارة الحوار والإقناع	2018 / 11 / 18 1440 / 03 / 10	الثاني عشر
مهارة الاتصال الجماهيري + استلام واجب الكتاب	2018 / 11 / 25 1440 / 03 / 17	الثالث عشر
مراجعة نهائية	2018 / 12 / 02 1440 / 03 / 24	الرابع عشر
إنهاء كافة ما يتعلق بالمنهج	2018 / 12 / 09 1440 / 04 / 02	الخامس عشر

المشرف الأكاديمي / وليد الزهراني

وبالله التوفيق



رابط العروض التقديمية لمادة مهارات الاتصال

QR Code:



<https://goo.gl/y3GKBH>





## الخطة التدريسية

### Syllabus Distribution

الفصل الدراسي الأول ١٤٣٩ / ١٤٤٠ 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
		مكان المحاضرة		
	مشرف المقرر	علي حمد السحيباني		

### أهداف المقرر:

- يهدف هذا المقرر إلى إكساب الطالب/ة المهارات الأكاديمية والحياتية الآتية:
- المهارات التنظيمية التي توضح ل/ها أن يتعلم كيف يتعلم، ويطبق التخطيط وإدارة الوقت، ويتعرف على عادات العقل التي تساعد 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 مصادرها المختلفة، وتطوير مهارة البحث عن المعلومات التي تتسم بالجدية ودقة التوثيق.
  - المهارات الأكاديمية من الضرورة أن يكتسبها الطالب الجامعي لأنها تساعد على تحسين قدراته العقلية في الاستذكار والقراءة والكتابة وتجعله مستعداً لأداء الاختبارات.
  - 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 التاسع (١٤٣٨ - ١٤٣٩ 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 والسلوك	١٠ درجات	مدى مشاركة الطالب/ة وتفاعله خلال الفصل الدراسي والالتزام بالسلوك الجيد داخل القاعة.
٣	اختبارات قصيرة وعددها (٣) اختبارات	٥٠ درجة	اختبارات نهائية قصيرة، الأول (١٠) درجات والثاني والثالث (٢٠) درجة.
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 الجزء من البحث الذي سبق إعداده أمام الطلاب/ات.
٥	تطبيق عملي (زيارة المكتبة)	١٠ درجات	ينفذ كل طالب/ة نشاط تطبيقي حسب المهارة
	المجموع	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.
- تبر الطالب/ة المتأخر/ة متغيباً عن المحاضرة، وعذر الغياب المقبول يجب أن يعتمد من لجنة الأعدار بالعمادة وحضر مع كل أسبوع من خ الغياب.



- الطالبة/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.
- الطالبة/ة مسؤولة 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 طالبه/ه آخر أثناء شرح عضو هيئة التدريس وداخل قاعة الاختبار.
- يجب على الطالبة/ه إحضار الكتاب المقرر الذي يمكن الحصول عليه من "مركز بيع الكتب في العمادة"
- على كل طالبه/ه تقديم الواجبات والتكليفات في الموعد المحدد لذلك، كما يجب على الطالبة/ه التقدم للاختبار بنفسه، إذا حاولت الغش سوف يطبق بحقه/ها عقوبة الغش ويحال إلى اللجنة المختصة بالعمادة.
- إذا أحتاج الطالبة/ه إلى خدمات أو رعاية خاصة فعليه مراجعة وحدة الإرشاد الأكاديمي في العمادة وإبلاغهم بذلك.

## توزيع مقرر مهارات التعلم على الأسابيع خلال الفصل الدراسي الثاني ١٤٣٩/١٤٤٠هـ

الأسبوع	التاريخ	الموضوع	الملاحظات
الأول	من ١٢/٢٢ إلى ١٢/٢٦ هـ ١٤٣٩	• استقبال الطلاب/الطالبات	
	من ٩/٢ إلى ٢٠١٨/٩/٦ م	• لمحة تعريفية موجزة عن مفردات المقرر وآلية تقييم الطالبة/ة.	
الثاني	من ١٢/٢٩ إلى ١٣/١ هـ ١٤٤٠	• إعادة / لمحة تعريفية موجزة عن مفردات المقرر وآلية تقييم الطالبة/ة.	
	من ٩/٩ إلى ٢٠١٨/٩/١٣ م	• تعلم كيف تتعلم	
الثالث	من ١/٦ إلى ١/١٠ هـ ١٤٤٠	• التخطيط وإدارة الوقت	
	من ٩/١٦ إلى ٢٠١٨/٩/٢٠ م		
الرابع	من ١/١٣ إلى ١/١٧ هـ ١٤٤٠	• عادات العقل	• تسليم الاختبار الأول: الإجابة على أصل النسخة الموجودة في نهاية الكتاب المقرر
	من ٩/٢٣ إلى ٢٠١٨/٩/٢٧ م		
الخامس	من ١/٢٠ إلى ١/٢٤ هـ ١٤٤٠	• المهارات الست الكبرى لحل المشكلات المعلوماتية	• شرح تكليف: البحث والعرض
	من ٩/٣٠ إلى ٢٠١٨/١٠/٤ م		
السادس	من ١/٢٧ إلى ٢/٢ هـ ١٤٤٠	• مهارات البحث	أ- زيارة المكتبة
	من ١٠/٧ إلى ٢٠١٨/١٠/١١ م		ب- تكليف التطبيق العملي (المكتبة)
السابع	من ٢/٥ إلى ٢/٩ هـ ١٤٤٠	الاختبار الثاني ( تعلم كيف تتعلم، التخطيط وإدارة الوقت، عادات العقل، والمهارات الست الكبرى لحل المشكلات المعلوماتية، )	
	من ١٠/١٤ إلى ٢٠١٨/١٠/١٨ م		
الثامن	من ٢/١٢ إلى ٢/١٦ هـ ١٤٤٠	• استراتيجية سكامبر في التفكير	تسليم التطبيق العملي (المكتبة)
	من ١٠/٢١ إلى ٢٠١٨/١٠/٢٥ م		أ- تسليم البحث ب- عرض البحوث للطلاب
التاسع	من ٢/١٩ إلى ٢/٢٣ هـ ١٤٤٠	اختبارات منتصف الفصل	مركز الملك سلمان
	من ١٠/٢٨ إلى ٢٠١٨/١١/١ م		
العاشر	من ٢/٢٦ إلى ٢/٣٠ هـ ١٤٤٠	• مهارات الاستذكار	أ- آخر موعد لتسليم البحث
	من ١١/٤ إلى ٢٠١٨/١١/٨ م		ب- عرض البحوث للطلاب
الحادي عشر	من ٣/٣ إلى ٣/٧ هـ ١٤٤٠	• مهارات القراءة	عرض البحوث للطلاب
	من ١١/١١ إلى ٢٠١٨/١١/١٥ م		
الثاني عشر	من ٣/١٠ إلى ٣/١٤ هـ ١٤٤٠	الاختبار الثالث ( مهارات البحث، استراتيجية سكامبر في التفكير، مهارات الاستذكار، ومهارات القراءة)	
	من ١١/١٨ إلى ٢٠١٨/١١/٢٢ م		
الثالث عشر	من ٣/١٧ إلى ٣/٢١ هـ ١٤٤٠	• مهارات الكتابة	
	من ١١/٢٥ إلى ٢٠١٨/١١/٢٩ م		
الرابع عشر	من ٣/٢٤ إلى ٣/٢٨ هـ ١٤٤٠	• القبعات الست للتفكير	
	من ١٢/٢ إلى ٢٠١٨/١٢/٦ م		
الخامس عشر	من ٤/٢ إلى ٤/٦ هـ ١٤٤٠	تسليم النتائج النهائية	
	من ١٢/٩ إلى ٢٠١٨/١٢/١٣ م		

المشرف الأكاديمي/ علي حمد السحيباني

وبالله التوفيق



## الخطة التدريسية Syllabus Distribution

الفصل الدراسي الثاني ١٤٤٠/١٤٣٩ هـ تحديث في ١٤٤٠/٥/٢ هـ

رمز المقرر	اسم المقرر	عدد الساعات المعتمدة	عدد ساعات الاتصال	المتطلب السابق
دار ٠١٠	مهارات ريادة الأعمال	١	١	لا يوجد
مشرف المقرر	/ عثمان بن حزام المطيري			
وقت المحاضرة	حسب الجدول	مكان المحاضرة	حسب الجدول	

### أهداف المقرر:

يهدف مقرر ريادة الأعمال إلى:

- تعريف الطالب على المشكلات العملية التي قد تواجهه عند التوجه للعمل في قطاعات الأعمال المختلفة
- الإلمام بالأساليب المتبعة للتطبيق العلمي والواقعي للقواعد الإدارية والفنية عند ممارسة العمل الحر
- التعرف على الوظائف الرئيسية والمهمة لرائد الأعمال مثل وظيفة التخطيط، والتنظيم، والقيادة، والرقابة.
- التعرف على مصادر الأفكار لمشروع جديد وتطبيق مراحل تحويل الفكرة إلى فرصة عمل
- كيفية إدارة المشروعات الخاصة وما يرتبط بها من مهارات الابتكار والإبداع ودراسات الجدوى الاقتصادية.
- إعداد وكتابة الخطة التشغيلية
- اكتساب مهارات التسويق
- تطوير القدرة على إدارة المشاريع الصغيرة.
- التعرف على أسباب نجاح أو فشل المنشآت الصغيرة وكيفية معالجتها
- التعرف على صفات رائد الأعمال الناجح
- كيفية التعامل مع المشكلات وإدارة الأزمات والمخاطر في المشاريع الريادية

**الكتاب المقرر:** إصدار عمادة البرامج التحضيرية، سنة الطبع ١٤٣٩ هـ.

**آلية التقويم: الجدول التالي يوضح توزيع الدرجات لهذا المقرر:**

### توزيع الدرجات:

الدرجة	الاسم	الدرجة	
٢٠ درجة	الاختبار الاول (في الأسبوع السابع)	الاختبارات	
٢٠ درجة	الاختبار الثاني (في الأسبوع الرابع عشر)		
١٠ درجات	الاختبار القصير الثالث (اختبار قصير في الصفحة الأخيرة من الكتاب)		
١٠ درجات	المشروع الريادي	الأعمال الفصلية	
١٠ درجات			(البحث الورقي)
١٠ درجات			العرض التقديمي ومناقشة البحث
١٠ درجات			التطبيق العملي (شخصية ريادية)
١٠ درجات	الحضور		
١٠ درجات	المشاركة		
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 (بواقع ٥ محاضرات) 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 عليه 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 حاولت 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 الثاني ١٤٢٩/١٤٤٠هـ:

الموضوع	التاريخ	الأسبوع
استقبال الطلاب	٢٠١٩/٠١/٠٦ م ، ١٤٤٠/٠٤/٣٠ هـ	الأول
ريادة الأعمال: المفاهيم والسمات	٢٠١٩/٠١/١٣ م ، ١٤٤٠/٠٥/٠٧ هـ	الثاني
مهارات رائد الأعمال	٢٠١٩/٠١/٢٠ م ، ١٤٤٠/٠٥/١٤ هـ	الثالث
المشاريع الصغيرة وريادة الأعمال	٢٠١٩/٠١/٢٧ م ، ١٤٤٠/٠٥/٢١ هـ	الرابع
الإبداع وريادة الأعمال	٢٠١٩/٠٢/٠٣ م ، ١٤٤٠/٠٥/٢٨ هـ	الخامس
تحويل الأفكار إلى مشاريع	٢٠١٩/٠٢/١٠ م ، ١٤٤٠/٠٦/٠٥ هـ	السادس
الاجتبار الأول (٢٠ درجة) ، توزيع المجموعات للمشروع	٢٠١٩/٠٢/١٧ م ، ١٤٤٠/٠٦/١٢ هـ	السابع
دراسة الجدوى للمشاريع الريادية	٢٠١٩/٠٢/٢٤ م ، ١٤٤٠/٠٦/١٩ هـ	الثامن
دراسة الجدوى للمشاريع الريادية	٢٠١٩/٠٣/٠٣ م ، ١٤٤٠/٠٦/٢٦ هـ	التاسع
الخطة التسويقية للمشاريع الريادية	٢٠١٩/٠٣/١٠ م ، ١٤٤٠/٠٧/٠٣ هـ	العاشر
الخطة التشغيلية للمشاريع الريادية	٢٠١٩/٠٣/١٧ م ، ١٤٤٠/٠٧/١٠ هـ	الحادي عشر
إدارة العمليات وتطوير الأداء	٢٠١٩/٠٣/٢٤ م ، ١٤٤٠/٠٧/١٧ هـ	الثاني عشر
إدارة المخاطر في المشاريع الصغيرة	٢٠١٩/٠٣/٣١ م ، ١٤٤٠/٠٧/٢٤ هـ	الثالث عشر
الاجتبار الثاني (٢٠ درجة) + تسليم الورقة الأخيرة	٢٠١٩/٠٤/٠٧ م ، ١٤٤٠/٠٨/٠٢ هـ	الرابع عشر
	٢٠١٩/٠٤/١٤ م ، ١٤٤٠/٠٨/٠٩ هـ	الخامس عشر
	٢٠١٩/٠٤/٢١ م ، ١٤٤٠/٠٨/١٦ هـ	السادس عشر

مشرف المقرر

أ. عثمان بن حزام المطيري

وبالله التوفيق،،

