KOMAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
(KUST)

Human Biology			
Course Title	**Human Biology**		
Course Code	**BIO2311**	**No. of Credits**	**3**
Department	**Medical Laboratory Science**	**College**	**Science**
Pre-requisites Course Code	**General Biology and Lab BIO1410C**	**Co-requisites Course Code**	
Course Coordinator(s)	**Alan Ahmed**		
Email	**alan.ahmed@komar.edu.iq**	**IP No.**	**116**
Other Course Teacher(s)/Tutor(s)			
Learning Hours	**Sunday 10:00am - 11:30am [112]** **Thursday 10:00am - 11:30am [106]**		
Contact Hours	**To be arranged by email [234]**		
Course Type	**Departmental Course**		
Offer in Academic Year	**Spring 2016**		

COURSE DESCRIPTION

This course is designed to provide Medical Laboratory Science students with essential knowledge about human biology; mainly structural anatomy and functional physiology of the body. Starting from the levels of organization and chemistry of life; the course will cover cells, tissues, organs and organ systems of human. It is aimed to familiarize students with the biology of human body so that they can easily pick more advanced pieces of information from the following courses such as Human Physiology.

COURSE LEARNING OUTCOMES (NAACLS)

After participating in the course, students would be able to:

1. Demonstrate a comprehensive knowledge about the cell as the basic unit of structure and function in the body. (E)
2. Recognize the major systems of the human body and describe their general operation and role in maintaining homeostasis. (E)
3. Demonstrate an understand the energy needs of the body and relate them to nutritional requirements. (E, F)
4. Identify the physiological components of common diseases including cancer, diabetes, heart disease, and stroke. (E, F)
5. Describe the guidelines of healthy live and outline the reasons why they were established. (E, F)

GUIDELINES ON GRADING POLICY

Points	*Percentage Scores*	*Grade*
A	*95–100*	*4.0*
A-	*90-94*	*3.7*
B+	*87–89*	*3.3*
B	*83-86*	*3.0*
B-	*80-82*	*2.7*
C+	*75–79*	*2.3*
C	*70-74*	*2.0*
C-	*65-69*	*1.7*
D+	*60–64*	*1.3*
D	*55-59*	*1.0*
D-	*50-54*	*0.7*
F	*0–49*	*0*
I	*Incomplete Course Work*	
W	*Official Withdrawal*	

COURSE TEACHING AND LEARNING ACTIVITIES

Course Teaching and Learning Activities: (short description)

This course will be taught twice a week lasting 3 hours in total. The semester has 15-instructional weeks followed by one week of exam.

Instruction of the course will include:

- Utilization of power point presentation
- Board space usage when more explanation is required

There will be in class group presentation, where students are told to present a relevant interesting topic for the class.

COURSE ASSESSMENT Tools

COURSE ASSESSMENT Tools	Weight
Quizzes	10%
In-Class Activities	10%
Presentation	10%
Test	20%
Mid-term Examination	20%
Final Examination	30%
Total	**100%**

Grading: Passing Grade: 65%

ESSENTIAL READINGS: (Journals, textbooks, website addresses etc.)

Text Book:

- David Shier; Hole's Human Anatomy & Physiology, Twelfth Edition, 2010.

References:

- Kathleen Anne Ireland, Visualizing Human Biology 3rd edition, 2011.
- Cecie Starr, Beverly McMillan: Human Biology 8th edition, 2010.

COURSE POLICY *(including plagiarism, academic honesty, attendance etc)*

Attendance:

- Students are expected to attend all lectures and must attend all examinations, quizzes, and presentations, and are subject to penalties.
- There is no make-up test/session for students who miss classes without official evidence.
- Students who have official evidence must arrange with the instructor to make-up missed test/session
- Students are subject to the regulation and policies mentioned in the KUST Student Handbook
- KUST guidelines for lateness are as follows: Three occasions of lateness count as one absence.

  You would be considered late after 10 minutes of the lecture time.

GUIDELINES FOR SUCCESS

- Work both independently and in groups of your peers, who can help you understand the course material**.**
- Attend every lecture, discussion, and lab.
- Make every effort to interact with your class partner(s).
- Try to stay active throughout the class period.
- Don’t hesitate to ask questions in class.
- Be cooperative at all times.

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Course Schedule

W	Due Date	Chapter/ Section	Assignments	CLO
1	**01.03.2016**	**LEVELS OF ORGANIZATION** Introduction to Human Biology		**1, 2**
	03.03.2016	Levels of Organization; The characteristics of life; Homeostasis		**1, 2**
2	**06.03.2016**	Chemical Basis of Life – Cells		**2, 3**
	10.03.2016	Cells – Tissues		**1, 2, 3**
3	**13.03.2016**	**SUPPORT AND MOVEMENT** Integumentary System	**Quiz 1**	**2, 3, 4, 5**
	17.03.2016	Skeletal System		**1, 2, 3, 5**
4	**27.03.2016**	Muscular System		**1, 2, 3, 5**
	31.03.2016	**INTEGRATION AND COORDINATION** Nervous System	**Quiz 2**	**1, 2, 3, 5**
5	**03.04.2016**	Nervous System		**1, 2, 3, 5**
	07.04.2016	Nervous System; Senses		**1, 2, 3, 5**
6	**10.04.2016**	Endocrine System	**Quiz 3**	**1, 2, 3, 4, 5**
	14.04.2016	Test 1	Test 1	**1, 2, 3, 4, 5**
7	**17.04.2016**	Presentation 1	Presentation 1	**1, 2, 3, 4, 5**
	21.04.2016	Presentation 1	Presentation 1	**1, 2, 3, 4, 5**
		Mid-term Exam		**1, 2, 3, 4, 5**
8	**[→7].05.2016**	**TRANSPORT** Blood		**1, 2, 3, 4, 5**
	05.05.2016	Cardiovascular System		**1, 2, 3, 4, 5**
9	**08.05.2016**	Lymphatic System and Immunity	**Quiz 4**	**1, 2, 3, 4, 5**
	12.05.2016	**ABSORPTION AND EXCRETION** Digestive System		**1, 2, 3, 4, 5**
10	**15.05.2016**	Nutrition and Metabolism		**1, 2, 3, 4, 5**
	19.05.2016	Respiratory System		**1, 2, 3, 4, 5**
11	**22.05.2016**	Urinary System	**Quiz 5**	**1, 2, 3, 4, 5**
	26.05.2016	Water, Electrolyte, and Acid-Base Balance		**1, 2, 3, 4, 5**
12	**29.05.2016**	**THE HUMAN LIFE CYCLE** Reproductive Systems		**1, 2, 3, 4, 5**
	02.06.2016	Pregnancy, Growth, and Development	**Quiz 6**	**1, 2, 3, 4, 5**
13	**05.06.2016**	Genetics and Genomics		**1, 2, 3, 4, 5**
	09.06.2016	Test 2	Test 2	**1, 2, 3, 4, 5**
14	**12.06.2016**	Presentation 2	Presentation 2	**1, 2, 3, 4, 5**
	16.06.2016	Presentation 2	Presentation 2	**1, 2, 3, 4, 5**
15		Revision Week		**1, 2, 3, 4, 5**
16		**Final Exam**		**1, 2, 3, 4, 5**