



UNIVERSITI TEKNOLOGI MARA

BIO562: HUMAN BIOLOGY

Course Name (English)	HUMAN BIOLOGY APPROVED
Course Code	BIO562
MQF Credit	3
Course Description	This course is designed to provide students with an overview of the area of biochemistry, cell biology and cellular processes as foundations for understanding human anatomy and physiology.
Transferable Skills	knowledge of human body and its function Solving genetics problems Knowledge of the physiology of the human organ systems Conceptual understanding of the human evolution
Teaching Methodologies	Lectures, Reading Activity, Discussion
CLO	CLO1 describe the human biological system and its relationship to genetics and evolution. CLO2 differentiate different human biological system and its function. CLO3 explain any current topic or issue related to human biology in written form. CLO4 identify any health or ethical issues related to human biology.
Pre-Requisite Courses	No course recommendations
Topics	
1. Introduction 1.1) A brief introduction to Human Biology, Science and Society	
2. The Chemistry of Life 2.1) Atoms and Molecules 2.2) Biological Molecules	
3. Cell as the Fundamental unit of Life 3.1) Cell Structure and Function 3.2) Cell Membrane transport Processes 3.3) Cell Reproduction and Differentiation	
4. Genetics and Inheritance 4.1) Mendelian genetics 4.2) The Molecular Basis for Inheritance	
5. Tissues and Body Organization 5.1) n/a	
6. The Organ Systems 6.1) The Skeletal System 6.2) The Muscular System 6.3) Blood and the Cardiovascular System 6.4) The Immune System 6.5) The Respiratory System 6.6) The Nervous System 6.7) The Endocrine System 6.8) The Digestive System and Human Nutrition 6.9) The Urinary System 6.10) The Reproductive System	

Assessment Breakdown	%
Continuous Assessment	50.00%
Final Assessment	50.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Assessing the information written on the poster designed by the students	10%	CLO3
	Assignment	Assessing the ethical parts or issues related to the poster designed by the students	10%	CLO4
	Test	Cumulative of 2 tests	30%	CLO2

Reading List	Recommended Text	<ul style="list-style-type: none"> Michael Windelspecht, Sylvia Mader 2015, <i>Human Biology</i>, McGraw-Hill Education [ISBN: 1259245748]
	Reference Book Resources	<ul style="list-style-type: none"> Daniel D. Chiras 2013, <i>Human Biology</i>, Jones & Bartlett Publishers [ISBN: 1284031810] Judith Goodenough, Betty McGuire 2013, <i>Biology of Humans</i>, Benjamin Cummings [ISBN: 0321821718] Michael D. Johnson 2013, <i>Human Biology</i>, Benjamin Cummings Daniel E. Lieberman 2014, <i>The Story of the Human Body</i>, Vintage Books [ISBN: 030774180X] Cecie Starr, Beverly McMillan 2013, <i>Human Biology</i>, Cengage Learning [ISBN: 1133599168] Cecie Starr, Beverly McMillan 2013, <i>Human Biology</i>, Cengage Learning [ISBN: 1133599168] Michael Windelspecht, Sylvia Mader 2013, <i>Human Biology</i>, McGraw-Hill Education [ISBN: 0073525480] Michael Windelspecht, Sylvia Mader 2013, <i>Human Biology</i>, McGraw-Hill Education [ISBN: 0073525480]
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	