

Anatomy & Physiology

2021-22 Academic Year

Program	Year	Semester
HCS-Personal Support Worker	1	1
HCS-Massage Therapy	1	2

Course Code:	BIOL 1503 Course Equiv. Code(s): ANAT 1340, BIOL 1501
Course Hours:	42 Course GPA Weighting: 3
Prerequisite:	N/A
Corequisite:	N/A
Laptop Course:	Yes No X
Delivery Mode(s): In class Online Hybrid X Correspondence

Pandemic remote teaching delivery mode	Fully asynchronous		ombined asynchronous and ynchronous
Remote proctoring required Yes	NoX		
Authorized by (Dean or Director): Judeline Inn	nocent Date:	July 2	2021

Prepared by		
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Course Description:

This hybrid course will introduce students to the normal anatomy and physiology of the human body. The development of medical terminology will help students refine their communication skills and understanding. Organization of the body will begin with study of cells, tissues, organs and then progress to organ systems within the body. A strong emphasis will be placed on homeostasis and the cooperative relationships between body systems in maintaining an overall balance.

Campus Closure Notice

In the event of a campus closure during which time classes cannot be conducted or attended in person, course delivery will be conducted remotely where possible. Should teaching and learning resume on campus, students may be organized into smaller groups for classroom delivery, in accordance with directions from public health authorities. In either situation, the learning plan sequence and/or evaluation methods may be adjusted to address topics requiring hands-on, practical learning activities.

Subject Eligibility for Prior Learning Assessment & Recognition (PLAR):

Prior Learning Assessment and Recognition (PLAR) is a process a student can use to gain college credit(s) for learning and skills acquired through previous life and work experiences. Candidates who successfully meet the course learning outcomes of a specific course may be granted credit based on the successful assessment of their prior learning. The type of assessment method (s) used will be determined by subject matter experts. Grades received for the PLAR challenge will be included in the calculation of a student's grade point average.

The PLAR application process is outlined in http://www.durhamcollege.ca/plar. Full-time and part-time students must adhere to all deadline dates. Please email: PLAR@durhamcollege.ca for details.

PLAR Eligibility

Yes 🛛	X N	0
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PLAR Assessment (if eligible):

	Assignment
X	Exam
	Portfolio
	Other

Course Learning Outcomes

Course Learning Outcomes contribute to the achievement of Program Learning Outcomes for courses that lead to a credential (e.g. diploma). A complete list of Vocational/Program Learning Outcomes and Essential Employability Skill Outcomes are located in each Program Guide.

Course Specific Learning Outcomes (CLO)		Essential Employability Skill Outcomes (ESSO)		
Student receiving a credit for this course will have reliably demonstrated their ability to:		This course will contribute to the achievement of the following Essential Employability Skills:		
CLO1	Utilize appropriate vocabulary when discussing the body structure and function.	X	EES 1. Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of	
CLO2	Describe the levels of body organization.		the audience.	
CLO3	Identify the principles of homeostasis.	X	EES 2. Respond to written, spoken, or visual	
CLO4	Describe the body's basic physiological needs.		messages in a manner that ensures effective communication.	
CLO5	Discuss the relationship between cells, organs and body systems.		EES 3. Execute mathematical operations accurately.	
CLO6	Compare the location, structure and function of the twelve body systems.		EES 4. Apply a systematic approach to solve problems.	
CLO7	Explain how selected body functions are accomplished.		EES 5. Use a variety of thinking skills to anticipate and solve problems.	
		X	EES 6. Locate, select, organize, and document information using appropriate technology and information systems.	
		X	EES 7. Analyze, evaluate, and apply relevant information from a variety of sources.	
			EES 8. Show respect for the diverse opinions, values, belief systems, and contribution of others.	
		X	EES 9. Interact with others in groups or teams in ways that contribute to effective working relationships and the achievement of goals.	
		X	EES 10. Manage the use of time and other resources to complete projects.	
		Χ	EES 11. Take responsibility for one's own actions, decisions, and consequences.	

Evaluation Criteria:

The Course Learning Outcomes and Essential Employability Skills Outcomes are evaluated by the following evaluation criterion.

Evaluation Description	Course Learning Outcomes	EESOs	Weighting
Quiz: Online Concept Quizzes (11 throughout semester, top 10 will be counted)	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7	EES1, EES2, EES6, EES7, EES10, EES11	25
Test: Test #1 (Chapters 1-4, 6, 7 in Week 5)	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7	EES1, EES2, EES6, EES10, EES11	15
Test: Test #2 (Chapters 8-16, 18 & 19 in Week 9)	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7	EES1, EES2, EES6, EES10, EES11	20
Test: Test #3 (Chapters 20- 24, 26 & 27 in Week 14)	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7	EES1, EES2, EES6, EES10, EES11	20
In Process: In class activities/online assignments These can occur anytime during the semester	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7	EES1, EES2, EES6, EES9, EES10, EES11	10
Assignment: Study Note Discussion Board Assignments	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7	EES1, EES2, EES6, EES9, EES10, EES11	10
Total			100%

Notes:

- 1. Online Quizzes: there will be an online quiz administered (11 total) through DC Connect. Details regarding the quizzes are below; however, note that:
 - a. Quizzes will be available for completion for a limited time (48 hours following the in-class session)
 - b. Quizzes will be timed
 - c. Students will be provided ONE attempt to complete quizzes for grade
 - d. The top ten marks from the eleven quizzes will be counted towards the final grade
 - e. There are no supplemental or re-write opportunities for quizzes. If a quiz is not completed by posted due date, a grade of 0 will be assigned to the quiz
- 2. Online Tests:

a. Dates are tentative and will be confirmed by faculty at the beginning of semester and posted on DC Connect (and/or in the course Detailed Sequence of Instruction)

b. Respondus will be used

b. For policies regarding missed tests, students should refer to their appropriate Program Guide

c. Tests will include a variety of types of questions: multiple choice, labelling and short answer questions d. There is no test"review" prior to test-all resources to prepare for tests can be found in DC Connect and from attending class

e. It is the student's responsibility to ensure stable WiFi prior to starting tests. Student MUST notify Faculty of any concerns PRIOR or during published test time

f. ASC-it is the student's responsibility to book tests through ASC in a timely manner

Missed test will result in a "zero"-please refer to Program Guide for specific test polices.

3. Cue Card

You may bring one a cue card into each test. The size of the cue card is paper, standard size, 4 inches x 6 inches (recipe card style). You may write on the both side of the cue card in handwriting only. You cannot bring any magnifying glasses or other assistive devices other than prescribed reading glasses to read the card. The card must include your name on top right and must be placed shown through Respondus at the beginning of the class so that it is visible for the invigilator to see. Students are NOT permitted to share cue cards in any manner. Student not permitted to glue or otherwise affix any paper to the card, must be handwritten. The use of

this card will be revoked if there is non compliance with the rules stated above. If these rules are broken, this will be considered academic dishonesty and all policies relating to that will be applied.

- 4. In-class activities can occur anytime. Students must be present/participate to obtain marks. Refer to Program Guide for policies.
- 5. There various assignments-please refer to DC Connect for Assignment Guidelines.

Please refer to Program Guide for policies.

- 6. The midterm mark will be calculated from the mark on Test #1 plus the quiz evaluation grade derived from the top 5 grades on the online quizzes given to date as well as any in-process grades. Six quizzes will be given prior to midterm mark calculation.
- 7. Computer malfunctions or problems will never be accepted as an excuse for a missing course requirement. It is the student's responsibility to resolve any technical issues prior to the deadlines for submission of his/her work or evaluations. Visit the IT Service Desk Portal or call the Service Desk at 905-721-3333 should technical difficulties arise.

See Program Guide

8. It is the learners responsibility to be aware of program specific policies and expectations regarding evaluations and student conduct. Refer to Program Guide.

Required Text(s) and Supplies:

1. PSW Program Durham PSW e-only F2021 ISBN: 9780323974493 THIS is required for PSW Students Only

Massage Therapy & Dental Assisting Programs: DO NOT purchase above PSW Bundle 9780323825962 - Herlihy Study Guide for The Human Body in Health and Illness - Elsevier eBook on VitalSource

9780323811248 Herlihy The Human Body in Health and Illness - Elsevier eBook on VitalSource

2. Technology Requirements

The following is a list of general technologies and skills that are required and will be used throughout the PSW Program

Technology Requirements

- Laptop or desktop computer
- Stable Internet access

- Internet browser (Google Chrome opens in new window, Mozilla Firefox opens in new window, Microsoft Edge opens in new window, or Safari opens in new window)

- Word Processing software (Microsoft Word opens in new windowor Google Docs opens in new window)

- Speakers

- Headphones
- Web Cam

Technical Skills

The following technical skills are required and will be used throughout the PSW Program

- Use the learning management system "DC Connect" (D2L/Brigtspace)
- Use of email with attachments
- Create and submit files in commonly used word processing formats

Recommended Resources (purchase is optional):

N/A

Policies and Expectations for the Learning Environment:

General Policies and Expectations:

General College policies related to	General policies related to
+ Acceptable Use of Information Technology	+ attendance
+ Academic Policies	 absence related to tests or assignment due dates
+ Academic Honesty	+ excused absences
+ Student Code of Conduct	+ writing tests and assignments
 Students' Rights and Responsibilities can be found on-line at http://www.durhamcollege.ca/academicpolicies 	 classroom management can be found in the Program Guide (full time programs only) in MyCampus http://www.durhamcollege.ca/mycampus/

Course Specific Policies and Expectations:

See Program Guide for all policies.

Asynchronous Online:

This is an online course-the majority of learning is self-study modules completed independently through DC Connect. Each unit includes detailed narrated ppt, videos and learning activities.

Hybrid Model-the one-hr "synchronous" virtual class is intended to provide opportunities for students to complete connection activities, collaborate with Professor and peers and clarify concepts.

Attendance:

As indicated this course is a hybrid course design. Students will complete videos, notes, and worksheets through independent learning completed outside of class time (minimum 2 hours per week). It is highly recommended that students come to the virtual class having completed asynchronous leaning and be prepared to discuss questions about the content from themselves and their peers.

Additionally, communication is made with students regarding class announcements and grades via DC Connect.

Computer Issues

1. If the College computers are "down or not working" resulting in the inability to meet a required deadline, the student must obtain written, dated documentation of the problem from the Commons IT Support Help Desk, to give to the Faculty. This must be done within 24 hours of the deadline. If the student is not receiving email through DC Mail, it is the student's responsibility to following up with IT Services promptly.

2. For IT Support visit https://durhamcollege.ca/info-for/current-students/information-technology-services-its

3. The Faculty is not responsible for any computer problems the student may encounter sending the assignment electronically. It is the student's responsibility to contact IT regarding any computer issues.

4. It is the student's responsibility to ensure the correct and most recent assignment file is uploaded to the "Assignment" folder in DC Connect. It is also the student's responsibility to ensure file is actually uploaded.

Tests may be scheduled OUTSIDE of class time at discretion of Faculty and availability of space. Students registered with the Access and Support Center will refer to their policies regarding quiz/test scheduling.

Academic Assistance:

Additional help is available from the professor via appointment. Students requiring assistance throughout the course may wish to investigate the services offered by:

Student Academic Learning Services (SALS):

Including peer tutoring, subject-specific assistance, learning/study skills and writing support.

Student Services Building, SSB 204T

http://www.durhamcollege.ca/student-experience/helping-you-succeed/student-academic-learning-services-sals

The Access and Support Centre (ASC): Services for students with exceptionalities. South Wing - SW116 http://www.durhamcollege.ca/student-experience/helping-you-succeed/access-and-support-centre

General Course Outline Notes:

- 1. Students should use the course outline as a learning tool to guide their achievement of the learning outcomes for this course. Specific questions should be directed to their individual professor.
- 2. The college considers the electronic communication methods (i.e. DC Mail or DC Connect) as the primary channel of communication. Students should check the sources regularly for current course information.
- 3. Professors are responsible for following this outline and facilitating the learning as detailed in this outline.
- 4. Course outlines should be retained for future needs (i.e. university credits, transfer of credits etc.)
- 5. A full description of the Academic Appeals Process can be found at https://durhamcollege.ca/about/governance/policies/academic-policies .
- Faculty are committed to ensuring accessible learning for all students. Students who would like assistance with academic access and accommodations in accordance with the Ontario Human Rights Code should register with the Access and Support Centre (ASC). ASC is located in room SW116, Oshawa Campus and in room 180 at the Whitby Campus. Contact ASC at 905-721-3123 for more information.
- 7. Durham College is committed to the fundamental values of preserving academic integrity. Durham College and faculty members reserve the right to use electronic means to detect and help prevent plagiarism. Students agree that by taking this course all assignments could be subject to submission either by themselves or by the faculty member for a review of textual similarity to Turnitin.com. Further information about Turnitin can be found on the Turnitin.com Web site.

Learning Plan

The Learning Plan is a planning guideline. Actual delivery of content may vary with circumstances.

Students will be notified in writing of changes that involve the addition or deletion of learning outcomes or evaluations, prior to changes being implemented, as specified in the Course Outline Policy and Procedure at Durham College.

Wk.	Hours:	2	Delivery:	Online			
1	Course Le	Course Learning Outcomes					
1	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7						
	Essential	Employ	ability Skills				
	Taught:		S1, EES2, EES(S11	6, EES10,	Practiced:	EES1	
	Intended Learning Objectives						
	INTRODUCTION TO ANATOMY & PHYSIOLOGY Describe the focus and rational of Anatomy & Physiology. Explain how Anatomy & Physiology is evaluated. Explain how to access Anatomy & Physiology learning resources. Describe course specific policies and expectations for the learning environment. Explain the structure of and success strategies for a hybrid course.						
						g environment.	
	UNIT 1 -	INTRO	DUCTION TO TH	HE HUMAN BOD	Ϋ́		
	 Distinguish between anatomy and physiology and explain how they are related. Define the term pathology. Describe the characteristics of life. Define metabolism and explain its significance. Differentiate between anabolism and catabolism. Discuss the basic physiological needs. Discuss the concept of homeostasis, and explain its importance to survival. Discuss the importance of feedback. mechanisms, and differentiate between negative and positive feedback. Describe the levels of organization within the human body. List the eleven body systems and give the general function of each. Describe the standard planes of reference in the human body. Describe the standard planes of reference in the human body. Describe the standard planes of reference in the human body. Describe the standard planes of reference in the human body. Describe the standard planes of reference in the human body. Describe the standard planes of reference in the human body. Describe the standard planes of reference in the human body. Describe the standard planes of reference in the human body. Describe the standard planes of reference in the human body. Describe the standard planes of reference in the human body. Describe the standard planes of reference in the human body. Define the common anatomical terms of direction. Name and locate the principal body cavities of the body. Name and locate the regions and quadrants of the abdomen. Use regional terms to describe areas of the body. 			e to survival. tiate between negative and positive each.			
	Intended	Learnin	g Activities				
	Discussion	on and c	evelopment of c	equence of Instru class learning env cture and success	/ironment.		
	Video Le Textbool Study Gu	Readin					
	Resources and References						
	Course (DC Conr						
	Text: Cha Study Gu		apter 1				
		line Cor	cept Quizzes emester, top 10	will be counted)		Weighting 2.5%	
	l						

Wk.	Hours: 1 Deli	very: In Class				
	Course Learning Outcome	 9 S				
1	CLO1, CLO2, CLO3, CLO	4, CLO5, CLO6, CLC)7			
	Essential Employability S	kills				
	Taught:		Practiced:	EES1, EES2, EES6, EES7, EES9, EES10, EES11		
	Intended Learning Object	ives				
	INTRODUCTION TO ANATOMY & PHYSIOLOGY					
	 INTRODUCTION TO ANATOMY & PHYSIOLOGY Describe the focus and rational of Anatomy & Physiology. Explain how Anatomy & Physiology is evaluated. Explain how to access Anatomy & Physiology learning resources. Describe course specific policies and expectations for the learning environment. Explain the structure of and success strategies for a hybrid course. UNIT 1 - INTRODUCTION TO THE HUMAN BODY 1. Distinguish between anatomy and physiology and explain how they are related. 2. Define the term pathology. 3. Describe the characteristics of life. 4. Define metabolism and explain its significance. 5. Differentiate between anabolism and catabolism. 6. Discuss the basic physiological needs. 7. Discuss the concept of homeostasis, and explain its importance to survival. 8. Discuss the importance of feedback mechanisms, and differentiate between negative and positive feedback. 9. Describe the anatomical position. 12. Describe the anatomical position. 13. Define the common anatomical terms of direction. 14. Name and locate the principal body cavities of the abdomen. 					
	Intended Learning Activiti	es				
	Review of Course Outline Discussion and developm Discussion of hybrid cours	ent of class learning e	environment.			
	Group Discussion/Work					
	Resources and Reference	:S				
	Course Outline DC Connect					
	Text: Chapter 1 Study Guide: Chapter 1					
Evaluation In Process: In-process (in class activities/online assignments) These can occur anytime during the semester						

Wk.	Hours: 2 Delivery: Online					
2	Course Learning Outcomes CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7					
2						
	Essential Employability Skills					
	Taught:Practiced:EES1,EES9,	EES2, EES6, EES7, EES10, EES11				
	Intended Learning Objectives					
	 UNIT 2 - CHEMISTRY, MATTER AND LIFE 1. Describe the structure of an atom. 2. Differentiate between ionic and covalent bonds. 3. Differentiate between compounds and molecules. 4. Discuss water and solutions. 5. Describe ions in relation to electrolytes. 6. Define pH scale. 7. Describe the importance of buffers in homeostasis. 8. Name the four main types of organic compounds and the building blocks of each. 9. Define enzyme; describe how enzymes work. 					
	UNIT 3 - THE CELL					
	 Explain why the cell is considered the basic unit of life. Describe the function and composition of the plasma membrane. Differentiate between extracellular and intracellular fluids. Describe the cytoplasm of the cell, including the names and functions o Briefly explain the role of ATP in the body. Differentiate between aerobic and anaerobic cellular metabolism. Describe methods by which substances enter and leave cells. Describe the processes of transcription and translation. Briefly distinguish between mitosis and meiosis. Explain the significance of cell division. Discuss the concept of cell differentiation. 	f the main organelles.				
	Intended Learning Activities					
	Video Lectures/Course Notes Textbook Reading Study Guide Completion					
	Resources and References					
	Text: Chapter 2 & 4 Study Guide: Chapter 2 & 4					
	Text: Chapter 3 Study Guide: Chapter 3					
	Evaluation Quiz: Online Concept Quizzes (11 throughout semester, top 10 will be counted)	Weighting 2.5%				

Wk.	Hours: 1 Delivery: In Class							
2	Course Learning Outcomes							
2	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7							
	Essential Employability Skills							
	Taught:Practiced:EES1, EES2, EES6, EES7,EES9, EES10, EES11							
	Intended Learning Objectives							
	UNIT 2 - CHEMISTRY, MATTER AND LIFE							
	 Describe the structure of an atom. Differentiate between ionic and covalent bonds. Differentiate between compounds and molecules. Discuss water and solutions. Describe ions in relation to electrolytes. Define pH scale. Describe the importance of buffers in homeostasis. Name the four main types of organic compounds and the building blocks of each. Define enzyme; describe how enzymes work. 							
	UNIT 3 - THE CELL							
	 Explain why the cell is considered the basic unit of life. Describe the function and composition of the plasma membrane. Differentiate between extracellular and intracellular fluids. Describe the cytoplasm of the cell, including the names and functions of the main organelles. Briefly explain the role of ATP in the body. Differentiate between aerobic and anaerobic cellular metabolism. Describe methods by which substances enter and leave cells. Describe the processes of transcription and translation. Briefly distinguish between mitosis and meiosis. Explain the significance of cell division. Discuss the concept of cell differentiation. 							
	Intended Learning Activities							
	Group Discussion/Work							
	Resources and References							
	Text: Chapter 2 & 4 Study Guide: Chapter 2 & 4							
	Text: Chapter 3 Study Guide: Chapter 3							
	Evaluation In Process: In-process (in class activities/online assignments) These can occur anytime during the semester							

Wk.	Hours: 2	Delivery:	Online						
3	Course Learning Out	tcomes							
	CLO1, CLO2, CLO3	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7							
	Essential Employabi	lity Skills							
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES9, EES10, EES11				
	Intended Learning Objectives								
	UNIT 4 - TISSUES								
 Name the four types of tissues and their general characteristics. Describe the location and function of epithelial tissue. Describe the function of mucus and cilia. Differentiate between exocrine and endocrine glands. Identify the structure, location, and function of connective tissue matrix. Discuss the main types of connective tissue. Give examples of liquid, soft, fibrous and hard connective tissue. Identify the three types of muscle tissue. Identify the three types of muscle tissue. Distinguish between voluntary and involuntary muscle, and relate to the three types of mu 10. Describe the function of the neuron and neuroglia. Describe the function of serous membranes. Discuss the function of serous membranes including the pericardium, pleura, and peritor UNIT 5 - THE INTEGUMENTARY SYSTEM Name and describe the layers of the skin. Explain the process and function of keratinization. Describe the subcutaneous layer. Explain the function of melanin and discuss other factors that affect skin colour. Discuss the structure and function of the hair and nails. Describe the functions of the sebaceous and sudoriferous (apocrine and eccrine) glands. 									
	8. Discuss the role o			•					
Video Lectures/Course Notes Textbook Reading Study Guide Completion									
	Resources and Refe	rences							
	Text: Chapter 6 Study Guide: Chapte	er 6							
	Text: Chapter 7 Study Guide: Chapte	er 7							
	Evaluation Quiz: Online Concep (11 throughout seme		will be counted)		Weighting 2.5%				

Wk.	Hours:	1	Delivery:	In Class					
3	Course L	earning Ou	tcomes						
	CLO1, 0	CLO2, CLO3	, CLO4, CLC	95, CLO6, CLO7					
	Essentia	l Employabi	ility Skills						
	Taught				Practiced:	EES1, EES2, EES6, EES7, EES9, EES10, EES11			
	Intended	Learning O	bjectives						
	UNIT 4	- TISSUES							
	2. Desc 3. Desc 4. Differ 5. Identi 6. Discu 7. Give 8. Identi 9. Distin 10. Des 11. Des 12. Defi 13. Disc UNIT 5 1. Name 2. Expla 3. Desc 4. Expla	 Name the four types of tissues and their general characteristics. Describe the location and function of epithelial tissue. Describe the function of mucus and cilia. Differentiate between exocrine and endocrine glands. Identify the structure, location, and function of connective tissue matrix. Discuss the main types of connective tissue. Give examples of liquid, soft, fibrous and hard connective tissue. Identify the three types of muscle tissue. Identify the three types of muscle tissue. Distinguish between voluntary and involuntary muscle, and relate to the three types of muscle tissue. Describe the function of the neuron and neuroglia. Describe the three types of epithelial membranes. Discuss the function of serous membranes including the pericardium, pleura, and peritoneum. UNIT 5 - THE INTEGUMENTARY SYSTEM Name and describe the layers of the skin. Explain the process and function of keratinization. Describe the subcutaneous layer. 							
	6. Desc 7. Discu	ribe the func uss the inform	tions of the s nation gained	tion of the hair a ebaceous and s by observation thermoregulation	udoriferous (apo of the skin.	crine and eccrine) glands.			
	Intended	Learning A	ctivities						
	Group [Discussion/W	/ork						
	Resourc	es and Refe	rences						
		napter 6 Guide: Chapte	er 6						
	Text: Cl Study G	napter 7 Suide: Chapte	er 7						
	(in class	ess: In-proce activities/or	nline assignm	nents) the semester					

Wk.	Hours:	2	Delivery:	Online				
4	Course L	earning Ou	tcomes					
-	CLO1, (CLO2, CLO3	, CLO4, CLC	05, CLO6, CLO7				
	Essentia	l Employabi	ility Skills					
	Taught	:			Practiced:	EES1, EES2, EES6, EES7, EES9, EES10, EES11		
	Intended Learning Objectives							
	UNIT 6	- THE SKEL	ETAL SYSTI	EM				
	 Distir Desc Desc Differ Differ Differ Discu Locai Skull Ribs Stern Stern Stern Stern Locai Scap Clavi Cuppe Lowe Desc 	 Describe the functions of the skeleton. Distinguish between the axial and appendicular skeleton. Describe the various shapes of bones. Describe the structure of a long bone. Differentiate between compact and cancellous bone. Differentiate between red and yellow marrow with respect to function and location. Differentiate between red and yellow marrow with respect to function and location. Differentiate between intramembranous and endochondral ossification. Discuss the hormonal control of blood calcium levels. Locate and briefly describe the function of the following bones in the axial skeleton: Skull - cranial, facial bones, and sinuses Ribs - true, false, and floating Sternum - manubrium, body and xyphoid process Spine - cervical, thoracic, lumbar, sacrum, coccyx Pelvis - illum, pubis, ischium, acetabulum Locate and briefly describe the function of the following bones in the appendicular skeleton: a. Scapula b. Clavicle						
		Learning A						
Video Lectures/Course Notes Textbook Reading Study Guide Completion								
	Resources and References							
		napter 8 Guide: Chapte	er 8					
		nline Concep		will be counted)		Weighting 2.5%		

Wk.	Hours: 1 Deliv	ry: In Class							
4	Course Learning Outcomes								
	CLO1, CLO2, CLO3, CLO4	CLO5, CLO6, CLO7							
	Essential Employability Skills								
	Taught:	Practiced: EES1, EES2, EES6, EES7, EES9, EES10, EES11							
	Intended Learning Objectives								
	UNIT 6 - THE SKELETAL S	/STEM							
	 UNIT 6 - THE SKELETAL SYSTEM 1. Describe the functions of the skeleton. 2. Distinguish between the axial and appendicular skeleton. 3. Describe the various shapes of bones. 4. Describe the structure of a long bone. 5. Differentiate between compact and cancellous bone. 6. Differentiate between red and yellow marrow with respect to function and location. 7. Differentiate between red and yellow marrow with respect to function and location. 8. Discuss the hormonal control of blood calcium levels. 9. Locate and briefly describe the function of the following bones in the axial skeleton: a. Skull - cranial, facial bones, and sinuses b. Ribs - true, false, and floating c. Sternum - manubrium, body and xyphoid process d. Spine - cervical, thoracic, lumbar, sacrum, coccyx e. Pelvis - ilium, pubis, ischium, acetabulum 10. Locate and briefly describe the function of the following bones in the appendicular skeleton: a. Scapula b. Clavicle c. Upper extremity-humerus, ulna, radius, carpals, metacarpals, phalanges d. Lower extremity-femur, patella, tibia, fibula, tarsals, metatarsals, phalanges 11. Define a joint. 12. Describe the three types of joints. 13. Describe the structure and function of a synovial joint. 14. Describe the types of movement produced by synovial joints. 								
	Intended Learning Activitie Group Discussion/Work								
	Resources and References								
	N/A								
	Evaluation In Process: In-process (in class activities/online as These can occur anytime d	gnments) ing the semester							

Wk.	Hours:	2	Delivery:	Online					
5	Course Learning Outcomes CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7								
	Essentia	l Employabi	ility Skills						
	Taught:				Practiced:	EES1, EES2, EES6, EES7, EES10, EES11			
	Intended	Learning O	bjectives						
	UNIT 7	- THE MUSC	CULAR SYS	ГЕМ					
	 Compare the three types of muscle tissue. Describe the anatomy and major functions of skeletal muscle. Describe tendons including the origin and insertion. Define prime mover, antagonist, and synergist. Briefly describe skeletal muscle contraction. Describe the energy sources required for muscle contraction. Explain the effects of exercise on muscles and the overall body. Describe some of the major muscles of the: Head - temporalis, frontalis, zygomaticus, and masseter Neck - sternocleidomastoid and trapezius Trunk - pectoralis major, abdominal muscles (rectus abdominis, internal/external oblique, and transverse abdominis), latissimus dorsi Shoulder girdle and arm - deltoid, biceps brachii, triceps brachii, and brachioradialis Pelvis and leg - quadriceps femoris (rectus femoris, vastus lateralis, vastus medialis, and vastus intermedius), hamstring group (biceps femoris, semitendinosus, and semimembranosis, and gastrocnemius 								
		Learning A							
	Textboo	ectures/Cour k Reading uide Comple							
	Resource	es and Refe	rences						
	Text: Cł Study G	napter 9 Juide: Chapte	er 9						
	Evaluatio								
		est #1 rs 1-4, 6, 7 i nent: Assigni							
	J		-						

Wk.	Hours: 1	1	Delivery:	In Class					
5									
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7								
	Essential Er	mployabil	ity Skills						
	Taught:				Practiced:	EES1, EES2, EES6, EES7, EES10, EES11			
	Intended Le	arning O	ojectives						
	UNIT 7 - TH	HE MUSC	ULAR SYST	ГЕМ					
	 Describe Describe Define program Briefly de Describe Describe Explain t Describe Head - te Neck - st Trunk - ptransverse Shoulder Pelvis ari intermedius gastrocnem 	e the anato tendons rime move escribe sk e the energ the effects e some of emporalis, ternocleid pectoralis i abdominis r girdle an nd leg - qu s), hamstrinius	omy and maj including the eletal muscl gy sources r of exercise the major m frontalis, zy omastoid an major, abdor s), latissimus d arm - delto adriceps fer ing group (b	e origin and in st, and synery e contraction equired for m on muscles uscles of the gomaticus, a d trapezius minal muscles dorsi bid, biceps bin noris (rectus	gist. h. huscle contraction. and the overall bod and masseter es (rectus abdominis rachii, triceps brach femoris, vastus late	y. s, internal/external oblique, and ii, and brachioradialis eralis, vastus medialis, and vastus and semimembranosis, and			
	Intended Le	•	ctivities						
	Test #1 (Ur	nits 1 - 6)							
	Resources a	and Refer	rences						
	Text: Chapt Study Guid		r 9						
	Evaluation					Weighting			
	Test: Test # (Chapters 1 Assignmen	1-4, 6, 7 ir	n Week 5) nent			20%			

Wk.	Hours:	2	Delivery:	Online						
6	Course L	earning Ou	tcomes							
6	CLO1, C	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7								
	Essential	Employabi	lity Skills							
	Taught:				Practiced:	EES1, EES2, EES6, EES7, EES9, EES10, EES11				
	Intended Learning Objectives									
	UNIT 8 - THE NERVOUS SYSTEM									
	2. Name 3. Descr 4. Expla 5. Briefly 6. Expla 7. Differd 9. Expla 10. Give 11. Expl 12. Desc 13. Nam 14. Desc	 Identify the main function of the nervous system. Name the groups of cells which make up nervous tissue and identify their functions. Describe the steps in an action potential. Explain the role of myelin in nerve conduction. Briefly describe transmission at a synapse. Explain the steps in a reflex arc. Differentiate between the CNS and PNS. Differentiate between the somatic and autonomic nervous systems. Explain the division and function of the autonomic nervous system. Give the location and functions of the four main divisions of the brain. Explain the functions of the hypothalamus and medulla oblongata. Describe the structure and function of the spinal cord. Name and describe the three meninges. Describe the function and location of cerebrospinal fluid. Compare the cranial and spinal nerves. 								
	UNIT 9 - THE SENSORY SYSTEM									
	2. Differe 3. List an 4. Comp 5. Define 6. Differe 7. Expla 8. Descr 9. List th 10. Com 11. Disc 12. Outli 13. Disc 14. Expl	 Describe the function of the sensory system. Differentiate between the special and general senses and give examples of each. List and describe the main structures of the eye. Compare the extrinsic and intrinsic muscles of the eye. Define refraction and list the refractive parts of the eye. Differentiate between the rods and cones of the eye. Differentiate between the rods and cones of the eye. Explain the process of convergence. Describe the three divisions of the ear. List the steps in hearing. Compare static and dynamic equilibrium. Discuss taste including the five main tastes. Outline the process of smell. Discuss the sense of pain, touch, pressure, temperature and position. Explain pain including the concept of referred pain. Explain sensory projection and adaption. 								
	Intended	Learning A	ctivities							
	Textboo	ectures/Cour k Reading uide Comple								
	Resource	es and Refe	rences							
		apter 10, 11 uide: Chapte	, & 12 er 10, 11, & 1	12						
		apter 13 uide: Chapte	er 13							
		nline Concep		will be counted)		Weighting 2.5%				

Wk.	Hours: 1 Delivery: In Class								
0	Course Learning Outcomes								
6	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO	7							
	Essential Employability Skills								
	Taught:	Practiced:	EES1, EES2, EES6, EES7, EES9, EES10, EES11						
	Intended Learning Objectives								
	UNIT 8 - THE NERVOUS SYSTEM								
 Identify the main function of the nervous system. Name the groups of cells which make up nervous tissue and identify their functions. Describe the steps in an action potential. Explain the role of myelin in nerve conduction. Briefly describe transmission at a synapse. Explain the steps in a reflex arc. Differentiate between the CNS and PNS. Differentiate between the somatic and autonomic nervous systems. Explain the division and function of the autonomic nervous system. Give the location and functions of the four main divisions of the brain. Explain the functions of the hypothalamus and medulla oblongata. Describe the structure and function of the spinal cord. Name and describe the three meninges. Compare the cranial and spinal nerves. 									
	UNIT 9 - THE SENSORY SYSTEM								
	 DINIT 9 - THE SENSORY SYSTEM Describe the function of the sensory system. Differentiate between the special and general senses and give examples of each. List and describe the main structures of the eye. Compare the extrinsic and intrinsic muscles of the eye. Define refraction and list the refractive parts of the eye. Differentiate between the rods and cones of the eye. Differentiate between the rods and cones of the eye. Describe the three divisions of the ear. List the steps in hearing. Compare static and dynamic equilibrium. Discuss taste including the five main tastes. Outline the process of smell. Discuss the sense of pain, touch, pressure, temperature and position. Explain pain including the concept of referred pain. Explain sensory projection and adaption. 								
	Intended Learning Activities								
	Group Discussion/Work								
	Resources and References								
Text: Chapter 10, 11, & 12 Study Guide: Chapter 10, 11, & 12									
	Text: Chapter 13 Study Guide: Chapter 13								
	Evaluation In Process: In-process (in class activities/online assignments) These can occur anytime during the semester								

	Hours:	2	Delivery:	Online					
	Course L	_earning Ou	utcomes						
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7								
	Essential Employability Skills								
	Taught	:			Practiced:	EES1, EES2, EES6, EES7, EES10, EES11			
	Intended	l Learning (Objectives						
	UNIT 10 - THE ENDOCRINE SYSTEM								
	 Compare the effects of the nervous system and the endocrine system in controlling the body. Describe the functions of hormones. Examine the concept of stimulus, target tissue and response. Explain how hormones are regulated. Name and locate the major endocrine glands. List and describe the effects of the major hormones produced by the endocrine glands. Describe how the hypothalamus controls the anterior and posterior pituitary gland. Explain how the endocrine system responds to stress. 								
	 UNIT 11 - THE BLOOD Describe the general characteristics of blood. List the components of blood. List the functions of blood. Name and describe the three types of formed elements in the blood and their functions. 								
	 Define hemostasis and describe the three steps involved. Compare ABO and Rh blood types. Explain the relationship between blood type and blood transfusions. 								
	Intended Learning Activities								
	Video Lectures/Course Notes Textbook Reading Study Guide Completion								
F	Resourc	es and Refe	erences						
		hapter 14 Guide: Chapt	er 14						
	Text: Chapter 15 Study Guide: Chapter 15								
	Evaluatio Quiz: O (11 thro	nline Conce	pt Quizzes ester, top 10	will be counted	d)	Weighting 2.5%			

Wk.	Hours: 1 Delivery: In Class								
7	Course Learning Outcomes								
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7								
	Essential Employability Skills								
	Taught:	Practiced: EES1, EES2, EES6, EES7, EES9, EES10, EES11							
Intended Learning Objectives									
	UNIT 10 - THE ENDOCRINE SYSTEM								
	 Compare the effects of the nervous system and the endocrine system in controlling the body. Describe the functions of hormones. Examine the concept of stimulus, target tissue and response. Explain how hormones are regulated. Name and locate the major endocrine glands. List and describe the effects of the major hormones produced by the endocrine glands. Explain how the hypothalamus controls the anterior and posterior pituitary gland. Explain how the endocrine system responds to stress. UNIT 11 - THE BLOOD Describe the general characteristics of blood. List the components of blood. List the functions of blood. Name and describe the three types of formed elements in the blood and their functions. Define hemostasis and describe the three steps involved. Compare ABO and Rh blood types. Explain the relationship between blood type and blood transfusions. 								
	Intended Learning Activities								
	Group Discussion/Work								
	Resources and References								
	Text: Chapter 14 Study Guide: Chapter 14								
	Text: Chapter 15 Study Guide: Chapter 15								
	Evaluation								
	In Process: In-process (in class activities/online assignments) These can occur anytime during the semester								

Wk.	Hours:	2	Delivery:	Online				
8	Course L	earning Ou	tcomes					
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7							
	Essential Employability Skills							
	Taught:				Practiced:	EES1, EES2, EES6, EES7, EES10, EES11		
	Intended	Learning C	bjectives					
	UNIT 12	- THE HEA	RT AND CAI	RDIOVASCULAF	R SYSTEM			
	 Describe the location of the heart. Describe the three layers of heart wall. Describe the structure of the pericardium and cite its functions. Compare the functions of the right and left sides of the heart. Compare the pulmonary and systemic circuits relative to location and function. Name the four chambers of the heart and compare their function. Name the valves of the heart and explain their function. Describe the blood supply to the myocardium. Explain the cardiac cycle including systole and diastole. Describe the conduction system of the heart. Explain the effects of the autonomic nervous system on the heart. Differentiate among the five types of blood vessels with regard to structure and function. Describe the factors involved in blood return to the heart. Explain the factors involved in blood return to the heart. Define the pulse and list factors that affect blood pressure. 							
		Learning A						
	Textboo	ectures/Cou k Reading						
	Study G	uide Comple	etion					
	Resources and References							
		apter 16, 17 uide: Chapte	7, 18, & 19 er 16, 17, 18,	, & 19				
	Evaluatio Quiz: Or (11 throu	nline Concer	ot Quizzes	will be counted)		Weighting 2.5%		
				win be counted)				

Wk.	Hours: 1	Delivery:	In Class		
8	Course Learning Ou CLO1, CLO2, CLO3		05, CLO6, CLO7		
	Essential Employab	ility Skills			
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES9, EES10, EES11
	Intended Learning C	bjectives			
	UNIT 12 - THE HEA	RT AND CA	RDIOVASCULAF	RSYSTEM	
	13. Discuss capillary 14. Define vasocons 15. Explain the facto 16. Define the pulse 17. Define blood pre	e layers of he cture of the p ctions of the i monary and s ambers of th of the heart a od supply to t ac cycle inclu nduction syst cts of the aut ong the five f y exchange. striction and ors involved i e and list factor	eart wall. bericardium and c right and left sides systemic circuits r e heart and comp and explain their f he myocardium. Iding systole and tem of the heart. onomic nervous s sypes of blood ves vasodilation. n blood return to ors that affect hea	s of the heart. elative to locatio pare their functio function. diastole. system on the he ssels with regard the heart. art rate.	eart. d to structure and function.
	Intended Learning A Group Discussion/W				
	Resources and Refe	erences			
	Text: Chapter 16, 17 Study Guide: Chapt		, & 19		
	Evaluation				
	In Process: In-proce (in class activities/or These can occur an	nline assignn			

Wk.	Hours:	2	Delivery:	Online		
9	Course L	earning Ou	itcomes			
	CLO1, (CLO2, CLO3	8, CLO4, CLC	05, CLO6, CLO7		
	Essentia	l Employab	ility Skills			
	Taught	:			Practiced:	EES1, EES2, EES6, EES7, EES10, EES11
	Intended	Learning C)bjectives			
	UNIT 13	3 - THE LYM	IPHATIC ANI	D IMMUNE SYS	ГЕМ	
	2. Comp 3. Desc 4. Name 5. Discu 6. List th 7. Expla 8. Desc 9. Differ 10. Differ 11. Differ 12. Des 13. Exp 14. Com 15. Exp 16. Des	bare and cor ribe lymphat the two man uss the struct ne functions ain the role of ribe the loca rentiate between the loca rentiate between the loca cribe the loca rentiate between the loca cribe the loca	ic capillaries. in lymphatic ture and func- of the spleer f the thymus tion and func- reen nonspec ween natural ween active a ammatory re of fever in the nction of T ce gen-antibody es and their r	tic and cardiovas ducts and descri- stion of lymph noon in the immune sys- ction of the tonsils cific and specific l ly and artificially and passive imm action. e body's respons ells and B cells.	be the area drai des. ystem. s. body defenses a acquired immun unity.	ned by each. Ind give examples of each.
		ectures/Cou				
	Textboo	ok Reading Guide Comple				
	Resource	es and Refe	erences			
		napter 20 & 2 Guide: Chapte				
				& 19 in Week 9)		

Wk.	Hours:	1	Delivery:	In Class		
9		earning Ou		05, CLO6, CLO7		
		, 0200	, 020 1, 020			
	Essentia	l Employab	ility Skills			
	Taught:				Practiced:	EES1, EES2, EES6, EES7, EES10, EES11
	Intended	Learning C	Objectives			
	UNIT 13	3 - THE LYN	IPHATIC ANI	D IMMUNE SYS	TEM	
	2. Comp 3. Desci 4. Name 5. Discu 6. List th 7. Expla 8. Desci 9. Differ 10. Diffe 11. Diffe 12. Desci 13. Expl 14. Com 15. Expl 16. Desci	pare and cor ribe lymphat the two mains the struc- ne functions in the role of ribe the local entiate betwork erentiate	tic capillaries. ain lymphatic ture and func- of the spleer of the thymus tion and func- veen nonspec- ween natural ween active a lammatory re of fever in the nction of T ce gen-antibody es and their r	tic and cardiova ducts and descr tion of lymph no in the immune s tion of the tonsil cific and specific ly and artificially and passive imm action. e body's response ells and B cells.	system. s. body defenses a acquired immun nunity. se to infection.	ned by each. nd give examples of each.
		Learning A				
	Test # 2	2 (Units 7 - 1	2)			
	Resource	es and Refe	erences			
		napter 20 & : uide: Chapt				
				& 19 in Week 9)	Weighting 20%

Wk.	Hours: 2	Delivery:	Online					
10	Course Learnir	-						
	CLO1, CLO2,	CLO3, CLO4, CLO	05, CLO6, CLO7					
	Essential Empl	oyability Skills						
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES10, EES11			
	Intended Learn	ing Objectives						
	UNIT 14 - THE RESPIRATORY SYSTEM							
	 a. nasal cavitie b. pharynx c. larynx d. trachea e. bronchi and f. alveoli 2. Define respi 3. Define inhal 4. Explain the 5. List the way 6. Describe ho 	bronchioles iration and describ lation and exhalati process of gas ex s oxygen and carb w breathing is reg	e the three phase on. change. oon dioxide are tra	es of respiration				
	Intended Learning Activities Video Lectures/Course Notes Textbook Reading Study Guide Completion							
	Resources and	I References						
	Text: Chapter Study Guide: 0							
		concept Quizzes t semester, top 10	will be counted)		Weighting 2.5%			

Wk.	Hours: 1 Delivery: In Class
10	Course Learning Outcomes
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7
	Essential Employability Skills
	Taught:Practiced:EES1, EES2, EES6, EES7,EES9, EES10, EES11
	Intended Learning Objectives
	UNIT 14 - THE RESPIRATORY SYSTEM
	 Describe the location, structure and function of the: a. nasal cavities b. pharynx c. larynx d. trachea e. bronchi and bronchioles f. alveoli Define respiration and describe the three phases of respiration. Define inhalation and exhalation. 4. Explain the process of gas exchange. 5. List the ways oxygen and carbon dioxide are transported in the blood. 6. Describe how breathing is regulated.
	Intended Learning Activities
	Group Discussion/Work
	Resources and References
	Text: Chapter 22 Study Guide: Chapter 22
	Evaluation
	In Process: In-process (in class activities/online assignments)
	These can occur anytime during the semester

Wk.	Hours:	2	Delivery:	Online		
11		earning Ou LO2, CLO3		95, CLO6, CLO7		
	Essential	Employabi	lity Skills			
	Taught:				Practiced:	EES1, EES2, EES6, EES7, EES10, EES11
	Intended I	Learning O	bjectives			
	UNIT 15	- THE DIGE	ESTIVE SYS	ТЕМ		
	 Differeregation Descriation Descriation Descriation Descriation List the series Explain Explain Define Define	entiate between be the struct be the struct agus ch including n the proces e peristalsis chime. entiate between the role of a subdivisio ain the funct uss the funct ribe the funct ribe the funct ribe the funct sin the funct	een the diges ture and fun the sphincters of swallow and its role in een the duoo the small in ns of the larg ions of the gas tions of the gas of the panc stive process rol of digestio	ction of the: ers ving. n digestion. denum, jejunum testine in digesti ge intestine. arge intestine. alivary glands. iver. n digestion. Il bladder. reas in digestion s including absol	and ileum. on including the	
	Intended I	Learning A	ctivities			
	Textbook	ctures/Cour Reading uide Comple				
	Resource	s and Refe	rences			
	Text: Cha Study Gu	apter 23 uide: Chapte	er 23			
		line Concep		will be counted)		Weighting 2.5%

Wk.	Hours: 1	Delivery:	In Class		
11	Course Learning C CLO1, CLO2, CLC		95, CLO6, CLO7		
	Essential Employa	bility Skills			
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES9, EES10, EES11
	Intended Learning	Objectives			
	UNIT 15 - THE DIG	GESTIVE SYS	TEM		
	 Describe the ma Differentiate bet Describe the str a. mouth b. teeth c. larynx d. esophagus e. stomach includin 4. Explain the processory 5. Define peristalsi 6. Define chime. 7. Differentiate bet 8. Explain the role 9. List the subdiviss 10. Explain the fun 11. Explain the fun 12. Discuss the fun 13. Describe the fun 15. Describe the fun 15. Describe the role 17. Discuss the dig 	ween the diges ucture and fun ing the sphincte cess of swallow is and its role in ween the duoc of the small in ions of the large ictions of the large ictions of the large ictions of the large ictions of the large iction of the ga ble of the panc gestive process	stive tract and acc ction of the: /ing. n digestion. denum, jejunum a testine in digestio ge intestine. arge intestine. alivary glands. iver. n digestion. Il bladder. reas in digestion. s including absorp	cessory organs. nd ileum. n including the	
	Intended Learning	Activities			
	Group Discussion/	Work			
	Resources and Re	ferences			
	Text: Chapter 23 Study Guide: Chap	oter 23			
	Evaluation In Process: In-proc (in class activities/ These can occur a	online assignm			

Wk.	Hours:	2	Delivery:	Online		
12	Course L	earning Ou	tcomes			
	CLO1, C	LO2, CLO3	, CLO4, CLC	05, CLO6, CLO7		
	Essential	Employab	ility Skills			
	Taught:				Practiced:	EES1, EES2, EES6, EES7, EES10, EES11
	Intended	Learning C	bjectives			
	UNIT 16	- THE URI	NARY SYSTE	EM AND BODY F	LUIDS	
	2. Explai 3. Identif a. Kidney i. Renal ii. Renal b. Ureter c. Bladde d. Urethr 4. Descr 5. Explai 6. Name 7. Name 8. Explai 9. Discus 10. Expla	in the main of the parts of cortex Medulla I Pelvis ra ibe the func in the role o the process the normal in the proce ss the impor ain water ba ain the sens	functions of the urinary of the urinary tions the part of the nephror ses involved and abnormass of urinatio rtance of wate alance.	he urinary system system. ts of the urinary synthesis in the kidney. in urine formation al constituents of	ystem. and describe tl	eliminated by each.
		Learning A				
		ectures/Cou k Reading	rse Notes			
	Study G	uide Comple	etion			
		es and Refe	rences			
	Text: Ch Study Gu	apter 24 uide: Chapte	er 24			
	Evaluatio					Weighting
	Quiz: On (11 throu	line Concep ughout seme	ot Quizzes ester, top 10	will be counted)		2.5%
		-	•	,		

Wk.	Hours:	1	Delivery:	In Class		
12		earning Ou				
	CLO1, C	CLO2, CLO3	, CLO4, CLC	05, CLO6, CLO7		
	Essential	Employabi	ility Skills			
	Taught:				Practiced:	EES1, EES2, EES6, EES7, EES9, EES10, EES11
	Intended	Learning O	bjectives			
	UNIT 16	- THE URI	NARY SYSTI	EM AND BODY F	LUIDS	
	2. Explai 3. Identif a. Kidne i. Renal ii. Renal b. Ureter c. Bladdo d. Urethr 4. Descr 5. Explai 6. Name 7. Name 8. Explai 9. Discus 10. Expla	in the main f fy the parts of y cortex Medulla I Pelvis r er ra ibe the func in the role of the process the normal in the proce ss the impor ain water ba ain the sens	functions of t of the urinary tions the part f the nephror ses involved and abnorm ss of urinatio rtance of wat alance. se of thirst.	he urinary system system. ts of the urinary s in the kidney. in urine formation al constituents of	n. system. n and describe ti	eliminated by each. he action of each.
		Learning A				
		1360331011/ 1				
	Resource	es and Refe	rences			
	Text: Ch Study G	apter 24 uide: Chapte	er 24			
	(in class	ss: In-proce activities/or	nline assignm	ients) the semester		

Wk.	Hours: 2	Delivery:	Online		
13	Course Learning Out	tcomes			
	CLO1, CLO2, CLO3	, CLO4, CLO	05, CLO6, CLO7		
	Essential Employabi	lity Skills			
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES10, EES11
	Intended Learning O	bjectives			
	UNIT 17 - THE REP	RODUCTIVI	E SYSTEM		
	 Define meiosis. Explain the differe Discuss the chrom Identify the organs Testes Vas deferens Ejaculatory duct Seminal vesicle Prostate gland Urethra Penis Describe the struct Explain the function Describe the form Identify the organs Ovary Fimbriae Infundibulum Fallopian tube Uterus Cervix Vagina Explain the process Describe fertiliza Discuss the dever Briefly describe te 	eture and fur on of testoste ation and fur s and access and access ss of ovulation tion and the elopment of o	olved in sex deter sory organs of the sory organs of the erone. nction of semen. sory organs of the on. early developmer embryo and fetus.	mination. male reproduct female reprodu	tive systems.
	Intended Learning A				
	Video Lectures/Cour Textbook Reading Study Guide Comple				
	Resources and Refe	rences			
	Text: Chapter 26 & 2 Study Guide: Chapte				
	Evaluation Quiz: Online Concep (11 throughout seme		will be counted)		Weighting 2.5%

Wk.	Hours: 1	Delivery:	In Class		
13	Course Learning O	utcomes			
13	CLO1, CLO2, CLO	93, CLO4, CLO	05, CLO6, CLO7		
	Essential Employa	bility Skills			
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES9, EES10, EES11
	Intended Learning	Objectives			
	UNIT 17 - THE RE	PRODUCTIVI	E SYSTEM		
	 Define meiosis. Explain the diffe Discuss the chroid discussion of the organal sectors of the organal test of t	prosomes inv ns and access ucture and fur tion of testoste mation and fur ns and access ess of ovulatio zation and the	notion of the tester erone. Inction of semen. sory organs of the	rmination. e male reproduc s. e female reprodu nt of the zygote.	tive systems.
	12. Briefly describe	e the four stag	es of labour.		
	Intended Learning	Activities			
	Group Discussion/	Work			
	Resources and Ref	erences			
	Text: Chapter 26 & Study Guide: Chap				
	Evaluation In Process: In-proc (in class activities/o These can occur a	online assignn			

Wk.	Hours: 2	Delivery:	Online			
14	Course Learning	g Outcomes				
	CLO1, CLO2, C	CLO3, CLO4, CLO	05, CLO6, CLO7			
	Course Learning Outcomes CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7 Essential Employability Skills Taught: Intended Learning Objectives Review for Test # 3 (Units 13 - 17) Intended Learning Activities Review for Test # 3 (Units 13 - 17) Resources and References N/A Evaluation Test: Test #3 (Chapters 20-24, 26 & 27 in Week Assignment: Assignment Hours: 1 Delivery: In Class Course Learning Outcomes CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7 Essential Employability Skills Taught: Intended Learning Objectives Test # 3 (Units 13 - 17) Intended Learning Activities					
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES10, EES11	
	Intended Learni	ng Objectives				
	Review for Test	t # 3 (Units 13 - 1	7)			
	Intended Learni	ng Activities				
	Review for Test	t # 3 (Units 13 - 1	7)			
	Resources and	References				
	N/A					
	Test: Test #3 (0	Chapters 20-24, 2 ssignment	6 & 27 in Week 14)		
	_	-				
Wk.	Hours: 1	-	In Class			
Wk.	Course Learning	Delivery: g Outcomes				
	Course Learning	Delivery: g Outcomes				
	Course Learning CLO1, CLO2, C	Delivery: g Outcomes CLO3, CLO4, CLO				
	Course Learning CLO1, CLO2, C Essential Emplo	Delivery: g Outcomes CLO3, CLO4, CLO		Practiced:	EES1, EES2, EES6, EES7, EES10, EES11	
	Course Learning CLO1, CLO2, C Essential Emplo Taught:	Delivery: g Outcomes CLO3, CLO4, CLO oyability Skills		Practiced:	EES1, EES2, EES6, EES7, EES10, EES11	
	Course Learning CLO1, CLO2, C Essential Emplo Taught: Intended Learni	Delivery: g Outcomes CLO3, CLO4, CLO oyability Skills ng Objectives		Practiced:	EES1, EES2, EES6, EES7, EES10, EES11	
	Course Learning CLO1, CLO2, C Essential Emplo Taught: Intended Learni Test # 3 (Units	Delivery: g Outcomes CLO3, CLO4, CLO oyability Skills ng Objectives 13 - 17)		Practiced:	EES1, EES2, EES6, EES7, EES10, EES11	
	Course Learning CLO1, CLO2, C Essential Emplo Taught: Intended Learni Test # 3 (Units	Delivery: g Outcomes CLO3, CLO4, CLO oyability Skills ng Objectives 13 - 17) ng Activities		Practiced:	EES1, EES2, EES6, EES7, EES10, EES11	
	Course Learning CLO1, CLO2, C Essential Emplo Taught: Intended Learni Test # 3 (Units Intended Learni	Delivery: g Outcomes CLO3, CLO4, CLO oyability Skills ng Objectives 13 - 17) ng Activities 13 - 17)		Practiced:	EES1, EES2, EES6, EES7, EES10, EES11	
	Course Learning CLO1, CLO2, C Essential Emplo Taught: Intended Learni Test # 3 (Units Intended Learni Test # 3 (Units	Delivery: g Outcomes CLO3, CLO4, CLO oyability Skills ng Objectives 13 - 17) ng Activities 13 - 17)		Practiced:	EES1, EES2, EES6, EES7, EES10, EES11	