

Anatomy & Physiology

2023-24 Academic Year

Program Title	Ministry Title	Major	Year	Semester
HS-Personal Support Worker		PSWK	1	1

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 Flexible HyFlex
Remote proctori	ing required Yes No X
Authorized by (Dean or Director): To be hired Date: June 2023

Prepared by					
First Name	Last Name	Email			
Kimberlee	Neault	kimberlee.neault@durhamcollege.ca			

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 No

PLAR Assessment (if eligible):



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)		
	eceiving a credit for this course will have emonstrated their ability to:	-	course will contribute to the achievement of ollowing 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	
CLO2	Describe the levels of body organization.		that fulfills the purpose and meets the needs of the audience.	
CLO3	Identify the principles of homeostasis.	X		
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.	
		X	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 Unit 7 & Unit 13	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. In-class activities can occur anytime. Students must be present/participate to obtain marks. Refer to Program Guide for policies. Access to a laptop will be required to complete in class evaluations.
- 4. There various assignments-please refer to DC Connect for Assignment Guidelines.

Please refer to Program Guide for policies.

- 5. 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.
- 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.

7. 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 - Required text included in Durham PSW Book bundle package

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

Herlihy Study Guide for 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

- -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/Brightspace)
- 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 Integrity	+ excused absences					
+ Standards for Student Conduct for all Learning Environments can be found at https://durhamcollege.ca/wp- content/uploads/Standards-of-Student-Conduct- for-all-Learning-Environments.pdf	 writing tests and assignments classroom management can be found in the Program Guide (full time programs only) in MyDC https://durhamcollege.ca/mydc/ 					
+ Information about academic policies and procedures can be found on-line at https://durhamcollege.ca/about/governance/polici es						
All students at Durham College have the responsibility to familiarize themselves with and abide by the college's Academic Integrity Policy. Students are expected to complete and submit their own work in an						

All students at Durham College have the responsibility to familiarize themselves with and abide by the college's Academic Integrity Policy. Students are expected to complete and submit their own work in an honest manner, in accordance with the policy. Durham College has zero tolerance for breaches of academic integrity. All suspected breaches of academic integrity will be investigated and documented following procedures outlined in the policy, and should a breach be confirmed, appropriate penalties will be levied. Breaches of academic integrity refer to a variety of practices including, but not limited to:

• copying another person's work;

- using unauthorized materials or resources during an evaluation;
- obtaining unauthorized copies of evaluations in advance;
- · collaborating without permission;
- colluding or providing unauthorized assistance;
- falsifying academic documents or records;
- misrepresenting academic credentials;
- buying, selling, stealing, soliciting, exchanging or transacting materials or information for the purpose of academic gain;
- bribing or attempting to bribe personnel;
- impersonation;
- submitting the same work in more than one course without authorization;
- improper use of computer technology and the internet;
- depriving others of academic resources;
- misrepresenting reasons for special consideration of academic work;

• plagiarizing or failing to acknowledge ideas, data, graphics or other content without proper and full acknowledgement;

• any unauthorized use of generative or other artificial intelligence.

If you have questions or concerns about what constitutes appropriate academic conduct or research and citation methods, and what your responsibilities are towards academic integrity, please visit the Academic Integrity website on MyDC, reach out to Student Academic Learning Services (SALS), or speak with your professor or Student Advisor.

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.

Week/ Module	Hours:	2	Delivery:	Online					
1	Course Learning C	utcomes							
	CLO1, CLO2, CLO	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7							
	Essential Employa	bility Skills							
	Taught: EES EES	1, EES2, EES6, 11	EES10,	Practiced:	EES1				
	Intended Learning	Objectives/Top	ics						
	INTRODUCTION	TO ANATOMY &	PHYSIOLOC	θY					
	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								
	 Distinguish betw Define the term Describe the ch Define metaboli Differentiate bet Discuss the bas Discuss the con Discuss the imp feedback. Describe the leven List the eleven Describe the a Describe the s Define the con Name and loca Use regional term 	pathology. aracteristics of lif sm and explain if ween anabolism ic physiological r cept of homeost ortance of feedb rels of organizati body systems a natomical positic tandard planes of mon anatomical ate the principal b ate the regions a	fe. and catabolis needs. asis, and expl ack. mechani on within the l nd give the ge on. of reference in terms of dire pody cavities nd quadrants	e. sm. ain its importance sms, and differen numan body. eneral function of the human body. ction. of the body. of the abdomen.	e to survival. tiate between negative and positive each.				
	Intended Learning	Activities							
	Review of Course Outline and Sequence of Instruction. Discussion and development of class learning environment. Discussion of hybrid course structure and success strategies.								
	Video Lectures/Course Notes Textbook Reading Study Guide Completion								
	Resources and Re								
	Course Outline DC Connect								
	Text: Chapter 1 Study Guide: Chap	oter 1							
	Evaluation Quiz: Online Conc 11 throughout sem	ept Quizzes lester, top 10 wil	l be counted		Weighting 25				
L									

Week/ Module	Hours:	1 1	Delivery:	In Class				
1	Course Learning Outcom	es						
	CLO1, CLO2, CLO3, CLO	4, CLO5, CL	.06, CLO7					
	Essential Employability S	kills						
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES9, EES10, EES11			
	Intended Learning Object	ives/Topics						
	INTRODUCTION TO ANA	ATOMY & PH	IYSIOLOG	Y				
	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							
	 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 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. 							
	Intended Learning Activit Review of Course Outline Discussion and developm Discussion of hybrid course	and Sequen ent of class I	learning en	vironment.				
	Group Discussion/Work			J				
	Resources and Reference	es						
	Course Outline DC Connect							
	Text: Chapter 1 Study Guide: Chapter 1							
	Evaluation In Process: In class activit These can occur anytime				Weighting 10			

Week/ Module	Hours:	2	Delivery:	Online			
2	Course Learning Outcomes						
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7						
	Essential Employab	ility Skills					
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES9, EES10, EES11		
	Intended Learning C)bjectives/Top	oics				
	UNIT 2 - CHEMISTI	RY, MATTER A	ND 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 c Describe the funct Differentiate betw Describe the cyto Briefly explain the Differentiate betw Describe method Describe the com Describe the proc Briefly distinguis Explain the sign Discuss the con 	tion and comp yeen extracellul plasm of the ca e role of ATP in yeen aerobic ar s by which sub position, locati cesses of trans th between mite ificance of cell	osition of the p lar and intrace ell, including th the body. nd anaerobic ostances enter on, and functi- cription and tra- osis and meio division.	blasma membran Ilular fluids. The names and fur cellular metabolis and leave cells. on of DNA in the anslation.	nctions of the main organelles. m.		
	Intended Learning A	ctivities					
	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: Chapt	er 3					
	Evaluation Quiz: Online Conce 11 throughout seme		l be counted		Weighting 25		

Week/ Module	Hours: 1 Deliver	y: In Class					
2	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/Topics						
	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 basi Describe the function and composition of th Differentiate between extracellular and intr Describe the cytoplasm of the cell, includin Briefly explain the role of ATP in the body. Differentiate between aerobic and anaerob Describe methods by which substances er Describe the processes of transcription and Briefly distinguish between mitosis and m Explain the significance of cell division. Discuss the concept of cell differentiation. 	ne plasma membrar acellular fluids. Ig the names and fu ic cellular metabolis iter and leave cells. Inction of DNA in the d translation. eiosis.	nctions of the main organelles. m.				
	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 class activities/online assignme These can occur anytime during the semeste		Weighting 10				

Week/ Module	Hours:	2	Delivery:	Online				
3	Course Learning (Dutcomes						
	CLO1, CLO2, CLO	03, CLO4, CLO5	5, CLO6, CLO7					
	Essential Employability Skills							
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES9, EES10, EES11			
	Intended Learning Objectives/Topics 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. 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. 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. Discuss the information gained by observation of the skin. Discuss the role of the skin in thermoregulation. 							
	Intended Learning	Activities						
	Video Lectures/Course Notes Textbook Reading Study Guide Completion							
	Resources and Re	eferences						
	Text: Chapter 6 Study Guide: Chapter 6							
	Text: Chapter 7 Study Guide: Cha	pter 7						
	Evaluation Quiz: Online Cond 11 throughout ser		ill be counted		Weighting 25			

Week/ Module	Hours:	1	Delivery:	In Class				
3	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/Topics							
	UNIT 4 - TISSUE	S						
	 UNIT 4 - TISSUES 1. Name the four types of tissues and their general characteristics. 2. Describe the location and function of epithelial tissue. 3. Describe the function of mucus and cilia. 4. Differentiate between exocrine and endocrine glands. 5. Identify the structure, location, and function of connective tissue matrix. 6. Discuss the main types of connective tissue. 7. Give examples of liquid, soft, fibrous and hard connective tissue. 8. Identify the three types of muscle tissue. 9. Distinguish between voluntary and involuntary muscle, and relate to the three types of muscle tissue. 10. Describe the function of the neuron and neuroglia. 11. Describe membranes and their function. 12. Define the three types of epithelial membranes. 13. Discuss the function of serous membranes including the pericardium, pleura, and peritoneum. UNIT 5 - THE INTEGUMENTARY SYSTEM 1. Name and describe the layers of the skin. 2. Explain the process and function of keratinization. 3. Describe the subcutaneous layer. 4. Explain the function of melanin and discuss other factors that affect skin colour. 5. Discuss the structure and function of the hair and nails. 6. Describe the function of the sebaceous and sudoriferous (apocrine and eccrine) glands. 7. Discuss the information gained by observation of the skin. 							
	Intended Learnin	g Activities						
	Group Discussio	n/Work						
	Resources and R	eferences						
	Text: Chapter 6 Study Guide: Chapter 6							
	Text: Chapter 7 Study Guide: Ch	apter 7						
		ass activities/onlin anytime during th		3	Weighting 10			

Week/ Module	Hours:	2	Delivery:	Online				
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/Topics							
	UNIT 6 - THE SKELETAL SYSTEM							
	 a. Scapula b. Clavicle c. Upper extremity-humer d. Lower extremity-femur 11. Define a joint. 12. Describe the three typ 13. Describe the structure 14. Describe the types of 	e axial and napes of be of a long be compact an ed and yell ntramembr control of b bribe the fu body and s loating body and s ic, lumbar, chium, acel scribe the f	l appendicula ones. one. Id cancellous low marrow v anous and el lood calcium nction of the inuses kyphoid proce sacrum, coc tabulum unction of the adius, carpals bia, fibula, tar s. ion of a syno	bone. vith respect to fur ndochondral ossi levels. following bones i ess cyx e following bones s, metacarpals, p sals, metatarsals vial joint.	fication. n the axial skeleton: in the appendicular skeleton: halanges			
	Intended Learning Activit	ies						
	Video Lectures/Course N Textbook Reading Study Guide Completion	otes						
	Resources and References Text: Chapter 8 Study Guide: Chapter 8							
	Evaluation Quiz: Online Concept Qu (11 throughout semester,		be counted)		Weighting 2.5			

Week/ Module	Hours: 1	Delivery:	n 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/	Topics					
	UNIT 6 - THE SKELETAL SYS	TEM					
	 UNIT 6 - THE SKELETAL SYSTEM 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 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 - lilum, pubis, ischium, acetabulum Locate and briefly describe the function of the following bones in the appendicular skeleton: a. Scapula Locate and briefly describe the function of the following bones in the appendicular skeleton: a. Scapula Locate and briefly describe the function of the following bones in the appendicular skeleton:						
	Intended Learning Activities						
	Group Discussion/Work						
	Resources and References						
	N/A						
	Evaluation In Process: In class activities/o These can occur anytime durin			Weighting 10			

Week/ Module	Hours:	2	Delivery:	Online				
5	Course Learning Out	Course Learning Outcomes						
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7							
	Essential Employability Skills							
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES10, EES11			
	Intended Learning Ob	jectives/Top	oics					
	UNIT 7 - THE MUSC	ULAR SYSTE	M					
	 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. 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 							
	Intended Learning Activities Video Lectures/Course Notes Textbook Reading							
	Study Guide Completion							
	Resources and References Text: Chapter 9 Study Guide: Chapter 9							
	Evaluation Test: Test #1 Chapters 1-4, 6, 7 in Assignment: Study N Unit 7 & Unit 13		n Board Assig	gnments	Weighting 25			

Week/ Module	Hours:	1	Delivery:	In Class				
5	Course Learning Outcomes							
	CLO1, CLO2, CLO	3, CLO4, CLO5,	CLO6, CLO7					
	Essential Employability Skills							
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES10, EES11			
	Intended Learning	Objectives/Top	ics					
	UNIT 7 - THE MUSCULAR SYSTEM							
	 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, an 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 va intermedius), hamstring group (biceps femoris, semitendinosus, and semimembranosis, and gastrocnemius 							
	Intended Learning							
	Test #1 (Units 1 - 6	6)						
	Resources and References							
	Text: Chapter 9 Study Guide: Chap	oter 9						
	Evaluation				Weighting			
	Test: Test #1 Chapters 1-4, 6, 7	in Week 5			15			

Week/ Module	Hours:	2	Delivery:	Online					
6	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/Topics								
	UNIT 8 - THE NERV	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								
	 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								
	Video Lectures/Cour Textbook Reading Study Guide Comple								
	Resources and Refe	rences							
	Text: Chapter 10, 11 Study Guide: Chapte								
	Text: Chapter 13 Study Guide: Chapte	er 13							
	Evaluation Quiz: Online Concep 11 throughout semes		l be counted		Weighting 25				

Week/ Module	Hours:	1	Delivery:	In Class					
6	Course Learning O	utcomes							
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7								
	Essential Employability Skills								
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES9, EES10, EES11				
	Intended Learning	Objectives/Topi	cs						
	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. Describe the function and location of cerebrospinal fluid. 								
	15. Compare the cr UNIT 9 - THE SEN								
	 Differentiate betw List and describe Compare the ext Define refraction Differentiate betw Explain the proce Describe the three List the steps in I Compare static Discuss taste in Discuss the ser Discuss the ser Explain pain incomparent 	 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	Activities							
	Group Discussion/	Vork							
	Resources and Ref	erences							
	Text: Chapter 10, 11, & 12 Study Guide: Chapter 10, 11, & 12								
	Text: Chapter 13 Study Guide: Chap	ter 13							
	Evaluation In Process: In class These can occur ar			5	Weighting 10				

Week/ Module	Hours:	2 [Delivery:	Online				
7	Course Learning Outcomes							
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7							
	Essential Employability Skills							
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES10, EES11			
	Intended Learning O	bjectives/Topics						
	UNIT 10 - THE END	OCRINE SYSTEM	Л					
	 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							
	Resources and Refe	rences						
	Text: Chapter 14 Study Guide: Chapte	er 14						
	Text: Chapter 15 Study Guide: Chapte	er 15						
	EvaluationWeightingQuiz: Online Concept Quizzes2511 throughout semester, top 10 will be counted25							

Week/ Module	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/Topics						
	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						
	Group Discussion/Work						
	Resources and References						
	Text: Chapter 14 Study Guide: Chapter 14						
	Text: Chapter 15 Study Guide: Chapter 15						
	EvaluationWeightingIn Process: In class activities/online assignments10These can occur anytime during the semester10						

Week/ Module	Hours:	2	Delivery:	Online					
8	Course Learning Outcomes								
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7								
	Essential Employat	Essential Employability Skills							
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES10, EES11				
	Intended Learning	Objectives/Top	oics						
	UNIT 12 - THE HE	ART AND CAR	DIOVASCULA	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 effects of the autonomic nervous system on the heart. Differentiate among the five types of blood vessels with regard to structure and function. Describe vasoconstriction and vasodilation. Explain the factors involved in blood return to the heart. Define the pulse and list factors that affect blood pressure. 								
	Intended Learning Activities								
	Video Lectures/Course Notes Textbook Reading Study Guide Completion								
	Resources and Ref	erences							
	Text: Chapter 16, 1 Study Guide: Chap	Text: Chapter 16, 17, 18, & 19 Study Guide: Chapter 16, 17, 18, & 19							
	Evaluation Quiz: Online Conce 11 throughout seme		l be counted		Weighting 25				

Week/ Module	Hours:	1	Delivery:	In Class				
8	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/Topics							
	UNIT 12 - THE HEART AND CARDIOVASCULAR SYSTEM							
	 13. Discuss capilla 14. Define vasocor 15. Explain the fact 16. Define the puls 17. Define blood pr 	ee layers of hear acture of the per- nctions of the right monary and system as of the heart and od supply to the iac cycle includir onduction system ects of the autom- nong the five typ ry exchange. Instriction and vast tors involved in the e and list factors ressure and list f	rt wall. icardium and ht and left side stemic circuits neart and com d explain their myocardium. ng systole and n of the heart. omic nervous es of blood ve sodilation. blood return to s that affect he	es of the heart. relative to locatio pare their functio function. d diastole. system on the he essels with regard o the heart. eart rate.	n. eart. d to structure and function.			
	Intended Learning							
	Group Discussion/	/VOrk						
	Resources and References							
	Text: Chapter 16, 1 Study Guide: Chap	7, 18, & 19 ter 16, 17, 18, &	. 19					
	Evaluation				Weighting			
	In Process: In class These can occur a			3	10			

Week/ Module	Hours:	2	Delivery:	Online					
9	Course Learning Ou	Course Learning Outcomes							
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7								
	Essential Employat	oility Skills							
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES10, EES11				
	Intended Learning (Objectives/Topi	ics						
	UNIT 13 - THE LYN	IPHATIC AND I	MMUNE SYS	STEM					
	 List the functions of the lymphatic system. Compare and contrast lymphatic and cardiovascular circulation. Describe lymphatic capillaries. Name the two main lymphatic ducts and describe the area drained by each. Discuss the structure and function of lymph nodes. List the functions of the spleen. Explain the role of the thymus in the immune system. Describe the location and function of the tonsils. Differentiate between nonspecific and specific body defenses and give examples of each. Differentiate between naturally and artificially acquired immunity. Describe the inflammatory reaction. Explain the role of fever in the body's response to infection. Compare the function of T cells and B cells. Explain the antigen-antibody reaction. Describe vaccines and their role in immunity. 								
	Intended Learning Activities Video Lectures/Course Notes Textbook Reading Study Guide Completion								
	Resources and Refe	erences							
		Text: Chapter 20 & 21 Study Guide: Chapter 20 & 21							
	Evaluation Test: Test #2 Chapters 8-16, 18 &	& 19 in Week 9			Weighting 20				

Week/ Module	Hours:	1	Delivery:	In Class				
9	Course Learning Ou	Course Learning Outcomes						
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7							
	Essential Employab	lity Skills						
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES10, EES11			
	Intended Learning C	bjectives/Top	oics					
	UNIT 13 - THE LYM	PHATIC AND	IMMUNE SYS	TEM				
	 List the functions of the lymphatic system. Compare and contrast lymphatic and cardiovascular circulation. Describe lymphatic capillaries. Name the two main lymphatic ducts and describe the area drained by each. Discuss the structure and function of lymph nodes. List the functions of the spleen. Explain the role of the thymus in the immune system. Describe the location and function of the tonsils. Differentiate between nonspecific and specific body defenses and give examples of each. Differentiate between naturally and artificially acquired immunity. Differentiate between active and passive immunity. Describe the inflammatory reaction. Explain the role of fever in the body's response to infection. Compare the function of T cells and B cells. Explain the antigen-antibody reaction. Describe vaccines and their role in immunity. 							
	Intended Learning A	ctivities						
	Test # 2 (Units 7 - 1)	2)						
	Resources and Refe	rences						
	Text: Chapter 20 & 21 Study Guide: Chapter 20 & 21							
	Evaluation				Weighting			
	Test: Test #2 30 Chapters 8-16, 18 & 19 in Week 9 Assignment: Study Note Discussion Board Assignments Unit 7 & Unit 13							

Week/ Module	Hours:	2	Delivery:	Online		
10	Course Learning Ou	tcomes				
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7					
	Essential Employability Skills					
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES10, EES11	
	Intended Learning O	bjectives/Top	ics			
	UNIT 14 - THE RES	PIRATORY SY	/STEM			
	 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. 3. 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					
	Video Lectures/Course Notes Textbook Reading Study Guide Completion					
	Resources and References					
	Text: Chapter 22 Study Guide: Chapter 22					
	Evaluation Quiz: Online Concep 11 throughout seme		l be counted		Weighting 25	

Week/ Module	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/Topics						
	UNIT 14 - THE RESPIRATORY SYSTEM						
	 Describe the location, structure and function of the: nasal cavities pharynx larynx trachea bronchi and bronchioles alveoli Define respiration and describe the three phases of respiration. Define inhalation and exhalation. Explain the process of gas exchange. List the ways oxygen and carbon dioxide are transported in the blood. Describe how breathing is regulated. 						
	Intended Learning Activities						
	Group Discussion/Work						
	Resources and References						
	Text: Chapter 22 Study Guide: Chapter 22						
	Evaluation	Weighting 10					

Week/ Module	Hours:	2	Delivery:	Online			
11	Course Learning Out	comes					
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7						
	Essential Employabil	ity Skills					
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES10, EES11		
	Intended Learning Objectives/Topics						
	UNIT 15 - THE DIGE	STIVE SYSTE	М				
	 Describe the main Differentiate betwee Describe the struct a. mouth b. teeth c. larynx d. esophagus e. stomach including 4. Explain the proces 5. Define peristalsis a 6. Define chime. 7. Differentiate betwee 8. Explain the role of 9. List the subdivision 10. Explain the functi 11. Explain the functi 12. Discuss the functi 13. Describe the functi 14. Explain the functi 15. Describe the role 16. Discuss the diges 17. Discuss the contr 	en the digestiv ure and function the sphincters is of swallowing and its role in d en the duoder the small intes ons of the large ons of the saliv on of bile in d on of the gall b of the pancreat tive process in ol of digestion.	ve tract and a on of the: g. igestion. tine in digest intestine. e intestine. vary glands. r. ligestion. ladder. as in digestion ncluding abso	and ileum. ion including the			
	Intended Learning Ac	tivities					
	Video Lectures/Course Notes Textbook Reading Study Guide Completion						
	Resources and Refer	ences					
	Text: Chapter 23 Study Guide: Chapte	r 23					
	Evaluation Quiz: Online Concept 11 throughout semes		be counted		Weighting 25		

Week/ Module	Hours: 1 Delivery: In Class						
11	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/Topics						
	UNIT 15 - THE DIGESTIVE SYSTEM						
	 Describe the main functions of the digestive system. Differentiate between the digestive tract and accessory organs. Describe the structure and function of the: a mouth b teeth c larynx d esophagus e stomach including the sphincters Explain the process of swallowing. Define peristalsis and its role in digestion. Define chime. To Differentiate between the duodenum, jejunum and ileum. Explain the role of the small intestine in digestion including the villi. List the subdivisions of the large intestine. Explain the functions of the large intestine. Explain the function of bile in digestion. Explain the function of bile in digestion. Explain the function of bile in digestion. Explain the function of the gall bladder. Describe the role of the pancreas in digestion. Discuss the digestive process including absorption. Discuss the control of digestion. 						
-	Intended Learning Activities						
	Group Discussion/Work						
	Resources and References Text: Chapter 23						
	Study Guide: Chapter 23						
	EvaluationWeightingIn Process: In class activities/online assignments10These can occur anytime during the semester10						

Week/ Module	Hours:	2	Delivery:	Online			
12	Course Learning Outcomes						
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7						
	Essential Employability Skills						
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES10, EES11		
	Intended Learning O	ojectives/Top	oics				
	UNIT 16 - THE URIN	ARY SYSTEM	AND BODY	FLUIDS			
	 List the systems that eliminate waste and name the substances eliminated by each. Explain the main functions of the urinary system. Identify the parts of the urinary system. Kidney Renal cortex Renal Medulla Renal Pelvis Ureter Bladder Urethra Describe the functions the parts of the urinary system. Explain the role of the nephron in the kidney. Name the processes involved in urine formation and describe the action of each. Name the normal and abnormal constituents of urine. Explain the process of urination. Discuss the importance of water to the body. Explain the sense of thirst. 						
	Intended Learning Activities						
	Video Lectures/Cour Textbook Reading	se Notes					
	Study Guide Completion						
	Resources and Refer	ences					
	Text: Chapter 24 Study Guide: Chapte	r 24					
	Evaluation				Weighting		
	Quiz: Online Concep 11 throughout semes	t Quizzes ster, top 10 wil	l be counted		25		

Week/ Module	Hours:	1	Delivery:	In Class			
12	Course Learning Outcomes						
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7						
	Essential Employability Skills						
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES9, EES10, EES11		
	Intended Learning C	bjectives/Top	oics				
	UNIT 16 - THE URII	NARY SYSTEM	M AND BODY	FLUIDS			
	 List the systems that eliminate waste and name the substances eliminated by each. Explain the main functions of the urinary system. Identify the parts of the urinary system. Kidney Renal cortex Renal Medulla Renal Pelvis Ureter Bladder Urethra Describe the functions the parts of the urinary system. Explain the role of the nephron in the kidney. Name the processes involved in urine formation and describe the action of each. Name the normal and abnormal constituents of urine. Explain the process of urination. Discuss the importance of water to the body. Explain the sense of thirst. 						
	Intended Learning Activities						
	Group Discussion/Work						
	Resources and References						
	Text: Chapter 24 Study Guide: Chapte	er 24					
	Evaluation In Process: In class These can occur an			5	Weighting 10		

Week/ Module	Hours:	2	Delivery:	Online			
13	Course Learning Outcomes						
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7						
	Essential Employab	ility Skills					
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES10, EES11		
	Intended Learning Objectives/Topics						
	UNIT 17 - THE REP	RODUCTIVE	SYSTEM				
	 Define meiosis. Explain the difference between dominate and recessive genes. Discuss the chromosomes involved in sex determination. Identify the organs and accessory organs of the male reproductive systems. Testes Vas deferens Ejaculatory duct Seminal vesicle Prostate gland Urethra Penis Describe the structure and function of the testes. Explain the function of testosterone. Describe the formation and function of semen. Identify the organs and accessory organs of the female reproductive systems. Ovary Fimbriae Infundibulum Fallopian tube Uterus Cervix Vagina Explain the process of ovulation. Describe fertilization and the early development of the zygote. Discuss the development of embryo and fetus. 						
	Intended Learning Activities						
	Video Lectures/Course Notes Textbook Reading Study Guide Completion						
	Resources and Refe	rences					
	Text: Chapter 26 & 2 Study Guide: Chapte	27 er 26 & 27					
	Evaluation Quiz: Online Conce 11 throughout seme		l be counted		Weighting 25		

Week/ Module	Hours:	1	Delivery:	In Class			
13	Course Learning Outcor	nes					
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7						
	Essential Employability	Skills					
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES9, EES10, EES11		
	Intended Learning Objectives/Topics						
	UNIT 17 - THE REPRODUCTIVE SYSTEM						
	 Define meiosis. Explain the difference Discuss the chromosof Identify the organs an a. Testes Vas deferens c. Ejaculatory duct d. Seminal vesicle e. Prostate gland f. Urethra g. Penis Describe the structure Explain the function of Describe the formation Identify the organs an a. Ovary Fimbriae c. Infundibulum d. Fallopian tube e. Uterus f. Cervix g. Vagina Explain the process of 10. Describe fertilization 11. Discuss the developed 12. Briefly describe the formation 	and function accessor and function testosterco and function accessor ovulation. and the ear nent of em	ved in sex det ry organs of th ry organs of th one. tion of semen ry organs of th arly developm bbryo and fetu	ermination. le male reproduc es. le female reprodu	tive systems. uctive systems.		
	Intended Learning Activities						
	Group Discussion/Work						
	Resources and Reference	es					
	Text: Chapter 26 & 27 Study Guide: Chapter 26	& 27					
	Evaluation In Process: In class active These can occur anytime				Weighting 10		

Week/ Module	Hours:	2	Delivery:	Online			
14	Course Learning Out	comes					
	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7						
	Essential Employabil	lity Skills					
	Taught:			Practiced:	EES1, EES2, EES6, EES7, EES10, EES11		
	Intended Learning Objectives/Topics						
	Review for Test # 3 (Units 13 - 17)					
	Intended Learning A	ctivities					
	Review for Test # 3 (Units 13 - 17)					
	Resources and Refer	rences					
	N/A						
	Evaluation Test: Test #3 Chapters 20-24, 26 &	& 27 in Week 1	4		Weighting 20		
Week/	••						
Module	Hours:	1	Delivery:	In Class			
	Hours: Course Learning Out	-	Delivery:	In Class			
Module		comes	-				
Module	Course Learning Out	comes CLO4, CLO5,	-				
Module	Course Learning Out CLO1, CLO2, CLO3,	comes CLO4, CLO5,	-		EES1, EES2, EES6, EES7, EES10, EES11		
Module	Course Learning Out CLO1, CLO2, CLO3, Essential Employabil	ccomes CLO4, CLO5, lity Skills	CLO6, CLO7				
Module	Course Learning Out CLO1, CLO2, CLO3, Essential Employabil Taught:	ccomes CLO4, CLO5, lity Skills bjectives/Top	CLO6, CLO7				
Module	Course Learning Out CLO1, CLO2, CLO3, Essential Employabil Taught: Intended Learning Ol	ccomes CLO4, CLO5, lity Skills bjectives/Top 7)	CLO6, CLO7				
Module	Course Learning Out CLO1, CLO2, CLO3, Essential Employabil Taught: Intended Learning Ol Test # 3 (Units 13 - 1	ccomes CLO4, CLO5, lity Skills bjectives/Top 7) ctivities	CLO6, CLO7				
Module	Course Learning Out CLO1, CLO2, CLO3, Essential Employabil Taught: Intended Learning Ol Test # 3 (Units 13 - 1 Intended Learning Ad	ccomes CLO4, CLO5, lity Skills bjectives/Top 7) ctivities 7)	CLO6, CLO7				
Module	Course Learning Out CLO1, CLO2, CLO3, Essential Employabil Taught: Intended Learning Ol Test # 3 (Units 13 - 1 Intended Learning Ac Test # 3 (Units 13 - 1	ccomes CLO4, CLO5, lity Skills bjectives/Top 7) ctivities 7)	CLO6, CLO7				
Module	Course Learning Out CLO1, CLO2, CLO3, Essential Employabil Taught: Intended Learning Of Test # 3 (Units 13 - 1 Intended Learning Ad Test # 3 (Units 13 - 1	ccomes CLO4, CLO5, lity Skills bjectives/Top 7) ctivities 7) rences	CLO6, CLO7				