SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE:	Body Structure and Function II				
CODE NO. :	PSW118	SE	EMESTER:	2	
PROGRAM:	Personal Support Worker				
AUTHOR:	Gwen DiAngelo, Allan Kary				
DATE:	Sept. 2012	PREVIOUS OUTLIN	E DATED:	Jan. 2012	
APPROVED:		"Marilyn King"		Aug/12	
	СНА	IR, HEALTH PROGRA	AMS	DATE	
TOTAL CREDITS:	3				
PREREQUISITE(S):	PSW108 – E	Body Structure and Fu	nction I		
HOURS/WEEK:	3				
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I. COURSE DESCRIPTION:

This course is a continuation of Body Structure and Function I. Study of the remaining body systems will provide the learner with a general understanding of how the structures and functions are related to maintaining homeostasis.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the student will demonstrate the ability to:

1. Describe the location, structure and function of cells, tissue and organs of stated body systems.

Potential Elements of the Performance:

Endocrine System

- List the functions of the endocrine system
- Define hormone
- Identify the major endocrine glands and their hormones

Cardiovascular System

Blood

- List three functions of blood
- Describe the composition of blood
- Describe the three types of blood cells and their function
- Explain the breakdown of red blood cells and the formation of bilirubin
- Identify the four blood types
- Explain the Rh factor

Heart

- Describe the location of the heart and its function
- Name the three layers and coving of the heart
- Identity the four chambers and four values of the heart and their function
- Trace the flow of blood through the heart
- List the blood vessels that move blood to and from the heart
- Define pulse, blood pressure, systole and diastole

Blood Vessels

- Describe the structure and function of arteries, capillaries and veins
- Describe the factors that determine blood pressure
- Describe edema formation

Lymphatic and Immune System

- Differentiate between specific and nonspecific immunity
- Describe the process of phapocytosis
- Explain the causes of the signs of inflammation
- Explain the role of fever in fighting infection
- Differentiate between genetic immunity and acquired immunity
- Differentiate naturally and artificially acquired active and passive immunity
- Identify the steps in the development of anaphylaxis

Respiratory System

- Describe the structure and function of the organs of the respiratory system
- Describe the mechanism of breathing
- Explain how breathing is controlled
- Trace the movement of air from the nostrils to the alveoli
- Describe the role of pulmonary surfactants
- List three conditions that make the alveoli well suited for the exchange of oxygen and carbon dioxide

Digestive System and Metabolism

- Identify the structures and functions of the organis of the digestive tract
- Define digestion and absorption
- Compare mechanical and chemical digestion
- Describe the role of digestive enzymes
- Describe the structure and functions of the accessory organs of the digestive tract
- Describe the role of bile in the digestion of fats
- Describe five categories of nutrients

Urinary System

- Identify the structure and function of each of the organs of the urinary system
- Label a diagram indicating the parts of the urinary system
- Identify the specific structures of the kidney and their basic functions
- Describe the blood supply of the kidney
- Explain the three processes involved in the formation of urine
- List the normal constituents of urine

Water, Electrolyte and Acid-Based Imbalance

- Describe the two main fluid compartments
- Define intake and output

Reproductive System

- Identify and describe the structure and function of the organs of the male reproductive system
- Identify and describe the structure and function of the organs of the female reproductive system
- Explain the hormonal control of reproduction in males and females
- Explain the three periods of prenatal development
- State two functions of the placenta
- Identify hormonal changes during pregnancy and labour
- Describe the stages of labour

Genetics/Inheritance

- Describe the process of fertilization
- Explain how the sex of a child is determined
- Explain the role of DNA, chromosomes and genes
- State the difference between congenital and hereditary diseases

III. TOPICS:

- 1. Endocrine System
- 2. Cardiovascular System
- 3. Lymphatic and Immune Systems
- 4. Respiratory System
- 5. Digestive System and Metabolism
- 6. Urinary System
- 7. Water, Electrolyte and Acid-Base Imbalance
- 8. Reproductive System
- 9. Genetics/Inheritance

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

- Sorrentino, S. et al (2013). *Mosby's Canadian textbook for the personal support worker.* (3rd Canadian ed.). Elsevier Mosby.
- Kelly, R. T., Sorrentino, S. et al (2013). *Workbook to accompany Mosby's Canadian textbook for the personal support worker*. (3rd Canadian ed.). Toronto: Elsevier Mosby.
- Herlihy, B. & Maebius, N. K. (2011). *The human body in health and illness* (4th ed.). Elsevier W. B. Saunders.

Sault College LMS

V. EVALUATION PROCESS/GRADING SYSTEM:

1. The pass mark for this course is 60%. It is composed of quizzes, exams, and a project/presentation.

2.	Online Quizzes (5% each X 8)	40%
	Assignment/Project	10%
	Midterm Exam	25%
	Final Exam	25%

- 3. **Online quizzes:** two attempts for each quiz, highest mark will be recorded
- 4. Students missing the quizzes for any reason will not be able to complete them after the due date.
- 5. Students missing the midterm or final exam because of illness or other serious reason must contact the professor before the exam to inform her/him. Those students who have notified the professor of their absence, according to policy, will be eligible to arrange an opportunity to write the exam at another time. Students must contact the professor on their first day back at school or clinical following a missed test or exam. Those students who do not follow the above procedures will receive a zero for that test or exam.

A minimum of a "C" grade is required to be successful in <u>all</u> PSW coded courses.

	The following semester grades will be assigned to students.					
<u>Grade</u>	Definition	Grade Point <u>Equivalent</u>				
A+ A	90 – 100% 80 – 89%	4.00				
B	70 - 79%	3.00				
С	60 - 69%	2.00				
D	50 – 59%	1.00				
F (Fail)	49% and below	0.00				
CR (Credit)	Credit for diploma requirements has been awarded.					
S	Satisfactory achievement in field /clinical placement or non-graded subject area.					
U	Unsatisfactory achievement in field/clinical placement or non-graded					
Х	subject area. A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the					
NR W	requirements for a course. Grade not reported to Registrar's office. Student has withdrawn from the course without academic penalty.					

NOTE: Mid Term grades are provided in theory classes and clinical/field placement experiences. Students are notified that the midterm grade is an interim grade and is subject to change.

VI. SPECIAL NOTES:

Attendance:

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session.

Supplemental Exam:

Supplemental exams will be offered to students who fall between 56-59% and have attended 80% of classes along with written the mid-term exam, the final exam, completed all on-line quizzes and submitted the course assignment.

VII. COURSE OUTLINE ADDENDUM:

The provisions contained in the addendum located on the portal form part of this course outline.

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