



## COURSE OUTLINE: PSW118 - BODY STRUCTURE II

Prepared: Julie Freestone

Approved: Bob Chapman, Chair, Health

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| <b>Course Code: Title</b>  | PSW118: BODY STRUCTURE AND FUNCTION II  |
| <b>Program Number: Name</b>  | 3027: PERSONAL SUPPORT WKR  |
| <b>Department:</b>   | PERSONAL SUPPORT WORKER   |
| <b>Semesters/Terms:</b>  | 19F, 20W, 20S   |
| <b>Course Description:</b>   | This course is a continuation of Body Structure and Function I (PSW108) in which the learner will examine the remaining body systems and how they maintain homeostasis. The learner will identify the basic structures and functions of the endocrine, circulatory, lymphatic, immune, respiratory, digestive, and urinary systems. Reproduction and human growth and development will also be studied.   |
| <b>Total Credits:</b>  | 3   |
| <b>Hours/Week:</b>   | 3   |
| <b>Total Hours:</b>  | 45  |
| <b>Prerequisites:</b>  | PSW108  |
| <b>Corequisites:</b>   | There are no co-requisites for this course.   |
| <b>Vocational Learning Outcomes (VLO's) addressed in this course:</b>                                | <b>3027 - PERSONAL SUPPORT WKR</b><br>VLO 8 Assist clients across the lifespan with routine activities of daily living by applying basic knowledge of growth and development, common alterations in functioning, disease prevention, health promotion and maintenance, rehabilitation and restorative care.   |
| <b>Please refer to program web page for a complete listing of program outcomes where applicable.</b> |   |
| <b>Essential Employability Skills (EES) addressed in this course:</b>                                | EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.<br>EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.<br>EES 6 Locate, select, organize, and document information using appropriate technology and information systems.<br>EES 7 Analyze, evaluate, and apply relevant information from a variety of sources. |
| <b>General Education Themes:</b>   | Science and Technology  |
| <b>Course Evaluation:</b>  | Passing Grade: 60%,   |
| <b>Books and Required Resources:</b>   | D2L by Sault College Learning Management System<br><br>Human Body in Health and Illness (w/ bind-in access) by Herlihy<br>Publisher: Elsevier - Health Sciences Division Edition: 6th<br>ISBN: 9780323498449<br>this text is from PSW108<br><br>Human Body in Health and Illness (SG) by Herlihy  |



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**Course Outcomes and Learning Objectives:**

| <b>Course Outcome 1</b>   | <b>Learning Objectives for Course Outcome 1</b>  |
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| 1. Identify the basic structures, functions, and age related changes of the endocrine system.             | 1.1 List the functions of the endocrine system.<br>1.2 Define hormone.<br>1.3 Identify the major endocrine glands and their hormones.<br>1.4 Describe age related changes of the endocrine system.   |
| <b>Course Outcome 2</b>   | <b>Learning Objectives for Course Outcome 2</b>  |
| 2. Identify the basic structures, functions, and age related changes of the circulatory system.           | 2.1 List three functions of blood.<br>2.2 Describe the composition of blood.<br>2.3 Describe the three types of blood cells and their function.<br>2.4 Explain the breakdown of red blood cells and the formation of bilirubin.<br>2.5 Identify the four blood types.<br>2.6 Explain Rh factor.<br>2.7 Describe the location of the heart and its function.<br>2.8 Name the three layers and covering of the heart.<br>2.9 Identify the four chambers and four valves of the heart and their function.<br>2.10 Trace the flow of blood through the heart.<br>2.11 List the blood vessels that move blood to and from the heart.<br>2.12 Define pulse, blood pressure, systole and diastole.<br>2.13 Describe age related changes to the heart.<br>2.14 Describe the structure and function of arteries, capillaries and veins.<br>2.15 Describe the factors that determine blood pressure.<br>2.16 Describe edema formation. |
| <b>Course Outcome 3</b>   | <b>Learning Objectives for Course Outcome 3</b>  |
| 3. Identify the basic structures, functions, and age related changes of the lymphatic and immune systems. | 3.1 Locate, identify, and label lymphoid organs and tissues and describe their functions.<br>3.2 Differentiate between specific and nonspecific immunity.<br>3.3 Describe the process of phagocytosis.<br>3.4 Explain the causes of the signs of inflammation.<br>3.5 Explain the role of fever in fighting infection.<br>3.6 Differentiate between genetic immunity and acquired immunity.<br>3.7 Differentiate naturally and artificially acquired active and passive immunity.<br>3.8 Identify the steps in the development of anaphylaxis.   |
| <b>Course Outcome 4</b>   | <b>Learning Objectives for Course Outcome 4</b>  |
| 4. Identify the basic structures, functions, and age related changes of the respiratory system.           | 4.1 Locate, identify, and label structures of the respiratory system and describe their functions.<br>4.2 Describe the mechanism of breathing.<br>4.3 Explain how breathing is controlled.<br>4.4 Trace the movement of air from the nostrils to the alveoli.<br>4.5 Describe the role of pulmonary surfactants.<br>4.6 List three conditions that make the alveoli well suited for the  |



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|   | exchange of oxygen and carbon dioxide.   |
| <b>Course Outcome 5</b>   | <b>Learning Objectives for Course Outcome 5</b>  |
| 5. Identify the basic structures, functions, and age related changes of the digestive system.   | 5.1 Locate, identify, and label structures of the digestive system and describe their functions.<br>5.2 Define digestion and absorption.<br>5.3 Compare mechanical and chemical digestion.<br>5.4 Describe the role of digestive enzymes.<br>5.5 Describe the role of bile in the digestion of fats.<br>5.6 Describe five categories of nutrients.   |
| <b>Course Outcome 6</b>   | <b>Learning Objectives for Course Outcome 6</b>  |
| 6. Identify the basic structures, functions, and age related changes of the urinary system and describe water, electrolyte and acid-base imbalance. | 6.1 Locate, identify, and label structures of the urinary system and describe their functions.<br>6.2 Describe the specific structures of the kidney and their basic functions.<br>6.3 Describe the blood supply of the kidney.<br>6.4 Explain the three processes involved in the formation of urine.<br>6.5 List the normal constituents of urine.<br>6.6 Describe the two main fluid compartments.<br>6.7 Define intake and output.   |
| <b>Course Outcome 7</b>   | <b>Learning Objectives for Course Outcome 7</b>  |
| 7. Identify the basic structures, functions, and age related changes of the reproductive systems and describe human growth and development.         | 7.1 Locate, identify, and label structures of the male reproductive system and describe their functions.<br>7.2 Locate, identify, and label structures of the female reproductive system and describe their functions.<br>7.3 Explain the hormonal control of reproduction in males and females.<br>7.4 Describe the process of fertilization.<br>7.5 State two functions of the placenta.<br>7.6 Identify hormonal changes during pregnancy and labour.<br>7.7 Describe the stages of labour.<br>7.8 Describe stages of prenatal and postnatal development. |

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| <b>Evaluation Process and Grading System:</b> | <b>Evaluation Type</b> | <b>Evaluation Weight</b> |
|   | Quizzes/Assignments    | 20%                      |
|   | Written Tests          | 80%                      |

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| <b>Date:</b>     | August 1, 2019   |
| <b>Addendum:</b> | Please refer to the course outline addendum on the Learning Management System for further information. |