

MODULE CMH3080: DIGESTIVE SYSTEM**Level:** Advanced**Theme:** Health Sciences**Prerequisite:** None**Module Description:** Students study the anatomy, physiology, pathology and treatment of the digestive and elimination systems. They gain an appreciation for practicing a healthy lifestyle, and acquire the knowledge and skills necessary to deal with digestive and elimination conditions as they affect the individual, family and friends. Students also identify community support resources.**Module Parameters:** No specialized equipment or facilities.**Supporting Module:** CMH2060 Home Care 2 (Personal Care Services)**Curriculum and Assessment Standards**

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> identify and describe the anatomy, physiology, pathology, causes, treatment, prevention, impact and support resources available for selected digestive and elimination conditions 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> a concept test consisting of a minimum of 10 questions in each of the following categories <ul style="list-style-type: none"> structure and function of the digestion system structure and function of the elimination system pathology of digestion and elimination systems. <p><i>Assessment Tool</i> <i>CMH3080–1: Concept Test: Digestion/Elimination Systems</i></p> <p><i>Standard</i> <i>Performance rating of 50%</i></p>	30
	<ul style="list-style-type: none"> describing a selected digestive and elimination condition as to: <ul style="list-style-type: none"> pathology and treatment prevention causes a sample therapeutic diet for the condition impact on the individual, family and community community support resources available. <p><i>Assessment Tool</i> <i>CMH3080–2: Presentations/Reports: Digestion/Elimination Conditions</i></p> <p><i>Standard</i> <i>Performance rating of 3 on the rating scale</i></p>	30

MODULE CMH3080: DIGESTIVE SYSTEM (continued)

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> • describe the causes, signs and symptoms, treatment and prevention of digestive and elimination emergencies • describe a personal action plan that will promote and maintain healthy digestive and elimination systems • identify career opportunities related to digestive and elimination systems • demonstrate basic competencies. 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> • practical problem-solving activities in which the student, using a minimum of two scenarios, recognizes digestion and elimination emergencies and demonstrates first-aid procedures. <p><i>Assessment Tool</i> <i>CMHSCN: Scenarios</i> <i>CMH3080–3: Digestion/Elimination Sample Scenarios</i></p> <p><i>Standard</i> <i>Performance rating of 3 on the rating scale for each scenario</i></p>	10
	<ul style="list-style-type: none"> • an applied problem-solving activity in which the student prepares a personal action plan to improve or maintain healthy digestive/elimination systems. <p><i>Assessment Tool</i> <i>CMHPAP: Personal Action Plan</i></p> <p><i>Standard</i> <i>Performance rating of 3 on the rating scale</i></p>	20
	<ul style="list-style-type: none"> • completion of three career profiles for careers related to the digestion and/or elimination systems, including: <ul style="list-style-type: none"> – duties, working conditions – education qualifications – employment/entrepreneurial opportunities – advancement potential – salary range and benefits – personal characteristics. <p><i>Assessment Tool</i> <i>CMH–CAR: Career Profiles</i></p> <p><i>Standard</i> <i>Three career profiles; all sections completed for each profile</i></p>	10
	<ul style="list-style-type: none"> • observations of individual effort and interpersonal interaction during the learning process. <p><i>Assessment Tool</i> <i>Basic Competencies Reference Guide and any assessment tools noted above</i></p>	Integrated throughout

MODULE CMH3080: DIGESTIVE SYSTEM (continued)

Concept	Specific Learner Expectations	Notes
The Healthy Body	<p><i>The student should:</i></p> <ul style="list-style-type: none"> • describe, locate and state the functions of the primary and accessory organs of the digestive system: <ul style="list-style-type: none"> – mouth – pharynx – esophagus – stomach – small intestine – large intestine – liver – gall bladder – pancreas – appendix • outline and compare the processes involved in ingestion, digestion, absorption and elimination at different stages of the lifespan • describe the role of enzymes and identify the major enzymes involved in digestion • describe the role of the major nutrients necessary for growth and maintenance over the lifespan: <ul style="list-style-type: none"> – water – carbohydrates – proteins – fats – vitamins – minerals – cellulose • list the body systems that eliminate waste and name the substances eliminated by each • describe, locate and state the functions of the organs of the urinary system • describe the processes involved in urine formation (filtration, reabsorption, secretion) • describe the process of urination • research and analyze the effects of aging on the digestive and elimination systems. 	<p>Models, diagrams, dissection, videos, software programs.</p> <p>Special role of appendix.</p> <p>Flow chart.</p> <p><i>Canada's Food Guide to Healthy Living</i> (FOD3010, FOD3020)</p> <p>Digestive, urinary, integumentary, respiratory.</p> <p>Models, diagrams, dissection.</p> <p>Role of ADH and hormones produced by kidney.</p> <p>Given a urinalysis report, evaluate which substances are normal or abnormal constituents of urine.</p> <p>Construct or draw a model that demonstrates how dialysis works.</p>

MODULE CMH3080: DIGESTIVE SYSTEM (continued)

Concept	Specific Learner Expectations	Notes
Observation, Assessment and Application	<p><i>The student should:</i></p> <ul style="list-style-type: none"> • describe the causes, signs and symptoms, prevention and treatment of conditions affecting digestive and elimination systems • analyze the social, emotional and economic affects of these conditions on the individual, family, peers and the community • plan a therapeutic diet that would be necessary in the treatment of conditions affecting digestive and elimination systems • list and describe services provided by community support resources • describe the causes, signs and symptoms, treatment and prevention of digestion and elimination emergencies. 	<ul style="list-style-type: none"> • Halitosis • gingivitis • gastroesophageal reflux • ulcers (gastric/duodenal) • pyloric stenosis • appendicitis • Crohn’s disease • celiac disease • hepatitis • cirrhosis • cholelithiasis • pancreatitis • cystic fibrosis • eating disorders • cancer • renal failure • acute glomerulonephritis • cystitis • urethritis • renal calculi • prostate problems
Health Promotion	<ul style="list-style-type: none"> • describe lifestyle choices that promote and maintain healthy digestive and elimination systems. 	<p>Assess nutritional intake over five days.</p> <ul style="list-style-type: none"> • weekend variations. <p>Personal action plan.</p>
Cultural Diversity	<ul style="list-style-type: none"> • describe how culture can affect dietary habits and digestion/elimination systems. 	
Career Exploration	<ul style="list-style-type: none"> • investigate and evaluate a career related to digestion/elimination systems: <ul style="list-style-type: none"> – duties, working conditions – education qualifications – employment opportunities – advancement potential – salary range and benefits – personal characteristics. 	<p>Gastroenterology.</p> <p>Urologist.</p>