ALH A120: HUMAN DISEASES

Item	Value
Curriculum Committee Approval Date	02/09/2022
Top Code	120100 - Health Occupations, General
Units	2 Total Units
Hours	36 Total Hours (Lecture Hours 36)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Grading Policy	Standard Letter (S)

Course Description

The study of disease processes and diseases affecting each body system. Includes etiology, pathophysiological mechanisms, methods of diagnosis, manifestations, and treatment of each disease. Recent completion of human anatomy and physiology is recommended before attempting this class. ADVISORY: ALH A111 or KIN A102 and BIOL A221. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Describe the etiologies, pathophysiology, manifestations and treatment of common diseases as applied to the human body.

Course Objectives

- 1. Identify terminology associated with the general study of disease, the basic laboratory findings, including tests and procedures used in determining diagnosis and the types of treatments used in human disease.
- 2. Discuss general pathological processes, etiologies, manifestations and treatment of inflammation, neoplasia, and inherited diseases.
- 3. Describe and discuss etiologies, pathophysiology, manifestations, and treatment of common diseases of the following organs and / or body systems: heart/ cardiovascular, blood and lymph, pulmonary, kidney, endocrine, reproductive, central nervous system, musculoskeletal, gastrointestinal, liver, gallbladder and pancreas.

Lecture Content

Study of Disease Definition of terms disease etiology pathophysiology manifestations diagnosis prognosis Methods of diagnosis history physical examination laboratory studies diagnostic tests treatment types Disease Processes Inflammation 4 stages acute vs. chronic manifestations treatment Immunity Types Complement Reaction Hypersensitivities Terminology Autoimmune Examples of diseases Immunodeficiency AIDS Neoplasia Definitions and terminology Benign vs. malignant Nomenclature General treatment types Inherited diseases chromosomal aberrations autosomal sex linked genetic transmission autosomal sex linked congenital diseases Heart Diseases Coronary artery disease Myocardial infarction Arrythmias Heart failure Cardiogenic shock Congenital heart disease Rheumatic heart disease Infective endocarditis Diseases of the Blood and Lymph Blood anemias polycythemia bleeding disorders Lymph leukemia lymphoma Kidney Diseases hypertension pyelonephritis glomerulonephritis acute, chronic and end-stage renal failure Pulmonary Diseases upper airway croup and epiglottitis bronc hogenic carcinoma pulmonary edema restrictive diseases pneumoconiosis pneumonia obstructive diseases asthma emphysema bronchitis: acute and chronic Tuberculosis Coccidioidomycosis Pulmonary Embolus Respiratory Failure Endocrine Diseases pituitary Anterior Posterior thyroid parathyroid adrenal Gastrointestinal Diseases congenital defects inflammatory diseases Gastritis Gastroenteritis Crohns Ulcerative Colitis Ulcer Diverticulosis / Diverticulitis hernias carcinomas Oral Cancer Leukoplakia Esophageal Stomach Colorectal Polyposis malabsorption syndrome Liver, Gallbladder and Pancreas liver hepatitis cirrhosis gallbladder cholecystitis cholelithiasis pancreas pancreatitis diabetes mellitus Reproductive Diseases male prostatitis BPH carcinoma prostate testicular female fibrocystic breast disease carcinoma breast endometrium cervix ovarian ovarian cysts benign: follicular and cystadenoma Musculoskeletal bone fractures spinal deformities scoliosis, kyphosis, lordosis osteomyelitis osteoporosis osteosarcoma Herniated Nucleus Pulposu s arthritis Osteo Rheumatoid Muscular Dystrophy Myesthenia Gravis XII. Central Nervous System Vascular TIA and Stroke Infectious Meningitis Brain Abcess Encephalitis Myelitis Guillain-Barre Herpes Zoster (Shingles) Degenerative MS Parkinsons Alzheimers Carcinoma Meningioma Glioma Epilepsy Types of Seizures

Method(s) of Instruction

- Lecture (02)
- DE Live Online Lecture (02S)
- DE Online Lecture (02X)

Instructional Techniques

Lecture/discussion; directed questioning; unit study questions

Reading Assignments

Students will read on average, 2 hours per week from the assigned textbook and additional instructional material provided by instructor.

Writing Assignments

Students will spend 1-2 hours per week on completing unit objectives and study questions.

Out-of-class Assignments

Students will spend on average 1 hour per week researching disease processes applicable to and discussed in current unit.

Demonstration of Critical Thinking

Written objective exams, cummulative final exam.

Required Writing, Problem Solving, Skills Demonstration

Short answer written unit study questions.

Eligible Disciplines

Cardiovascular technology: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience. Diagnostic medical technology-diagnostic medical sonography, neurodiagnosti...: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience. Dietetic technician: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience. Dietetics: See nutritional science/ dietetics Health care ancillaries (medical assisting, hospice worker, home care aide...: Any bachelors degree and two years of professional

experience, or any associate degree and six years of professional experience. Nutritional science/dietetics: Masters degree in nutrition, dietetics, or dietetics and food administration OR bachelors degree in any of the above AND masters degree in chemistry, public health, or family and consumer studies/home economics OR the equivalent. (Note: A bachelors degree in nutrition, dietetics, or dietetics and food administration, and certification as a registered dietician, is an alternative qualification for this discipline.) Masters degree required. Title 5, section 53410.1 Radiological technology: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience. Respiratory technician: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience. Speech language pathology: Masters degree in speech pathology, speech language pathology, speech language and hearing sciences, communicative disorders, communicative disorders and sciences, communication sciences and disorders, or education with a concentration in speech pathology, OR the equivalent. Masters degree required.

Textbooks Resources

1. Required Zelman, M., Tompary, E.,Raymond, J.,Holdaway, P., Mulvihill, MJ. . Human Diseases, 8 ed. Pearson, 2015 Rationale: No updated edition. Book is well-organized and simplistic in its terminology, description of foundational disease processes and presentation of Human Diseases for each organ / body system. Appropriate for the general population who is taking this course.