

GRANDE PRAIRIE REGIONAL COLLEGE

COURSE OUTLINE - FALL 1994

COURSE: AN 1050 STRUCTURAL ANATOMY 1994/95

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**LABORATORY
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**NATURE OF
THE COURSE:** AN 1050 considers the construction of the human body from cells through organ systems. The course is organized to complement Elementary Physiology PZ 1621.

EVALUATION:

Course materials:

Tests (multiple choice & short answer)	2 @ 9%	30%
	1 @ 12%	
Comprehensive final examination		40%

Laboratory:

Tests	2 @ 8%	16%
Comprehensive laboratory final test		14%
		<u>100%</u>

TEXTBOOKS:

Hole, John W. Jr. and Koos, Karen A. 1991. Human Anatomy
Wm. C. Brown Company Publishers.

Hole, John W. Jr. 1993. Laboratory Manual Human Anatomy and Physiology, 5th Ed., Wm. C. Brown Company Publishers.

Hole, John W. Jr. 1993. Student Study Guide Human Anatomy and Physiology, 6th Ed., Wm. C. Brown Company Publishers.

TOPIC OUTLINE

TOPICS

CHAPTER IN HOLK

1. Introduction
 - Human physiology and anatomy 1
 - Types of anatomy:
 - Gross anatomy
 - Microscopic anatomy (Microanatomy)
 - Developmental anatomy
 - Descriptive anatomy
 - Regional anatomy
 - Comparative anatomy
 - Methods of Anatomy
 - Microscopy
 - Radiography
 - Tomography
 - Ultrasonography
 - Scintigraphy
 - Magnetic resonance imaging
 - Terminology (nomenclature)
2. Body Organization 2
 - Levels of organization
 - Body organization
 - Cavities
 - Membranes
 - Organ systems
 - Anatomical Terminology
 - Position
 - Sections
 - Body Regions
3. Cytology and Histology 3 & 4
 - Cytology
 - Definition
 - Cell size, shape, and function (types)
 - Composite cell and cell junctions
 - Histology (tissues)
 - Epithelial
 - Connective
 - Muscle
 - Nerve
4. Integumentary System 5
 - Membranes
 - Skin
 - Epidermis
 - Dermis
 - Subcutaneous
 - Accessory organs
 - Integument distribution (regions)

5.	Skeletal System	6 & 7
	Bone structure	
	Development and growth	
	Functions	
	Organization	
	Skull	
	Vertebral column	
	Pectoral girdle	
	Upper limb	
	Pelvic girdle	
	Lower limb	
	Joints	
	Classification	
	Types	
	Movements	
6.	Muscular System	8
	Structure of skeletal muscle	
	Major skeletal muscles	
	Facial expression	
	Mastication	
	Move the head	
	Move the pectoral girdle	
	Move the upper arm	
	Move the forearm	
	Move the wrist, hand and fingers	
	Of the abdominal wall	
	Pelvic outlet	
	Move the thigh	
	Move the lower leg	
	Move the ankle, foot and toes	
7.	The Nervous System	9
	Nerve tissue	
	Neurons	
	Neuroglia cells	
	The synapse	
	Types of nerves	
	Reflex arc	
	Meninges	
	Spinal cord	
	Brain	
	Peripheral nervous system	
	Autonomic nervous system	
8.	Somatic and Special Senses	10
	Receptors (somatic)	
	Special senses	
	Olfactory	
	Gustatory	
	Auditory	
	Visual	

9.	Endocrine Systems	11
	Pituitary gland	
	Hypothalamus	
	Thyroid gland	
	Parathyroid gland	
	Adrenal glands	
	Pancreas	
	Pineal gland	
	Thymus gland	
	Reproductive glands (ovaries and testes)	
	Digestive glands	
10.	Digestive System	12
	Alimentary canal	
	Mouth	
	Salivary glands	
	Pharynx and oesophagus	
	Stomach	
	Pancreas	
	Liver	
	Small intestine	
	Large intestine	
11.	Respiratory System	13
	Organs	
	Nose	
	Nasal cavity	
	Sinuses	
	Larynx	
	Trachea	
	Bronchial tree	
	Lungs	
	Alveoli and respiratory membrane	
12.	The Cardiovascular System	14
	Structure of the heart	
	Blood vessels	
	Paths of circulation	
	The arterial system	
	The venous system	
	Fetal circulation	18
13.	The Lymphatic System	15
	Lymphatic pathways	
	Lymph nodes	
	Thymus and spleen	
14.	The Urinary System	16
	System	
	Kidneys	
15.	The Reproductive System	17

Life cycle
Male system
Female system

16. Growth & Development 18
 Overview

GRANDE PRAIRIE REGIONAL COLLEGE

PE 1000

LABORATORY SCHEDULE FALL 1994

Date (1994)	Lab Period	Title	Exercise In Hole ¹
Sept 5	1	Body Organization and Terminology	1
		Care and Use of Compound Microscope	2
		Cellular Structure	3
Sept 22	2	Epithelial Tissues	6
		Connective Tissues	7
		Muscle and Nerve Tissues	8
		Integumentary System	9
Sept 29	3	Structure and Classification of Bone	10
		Organization of the Skeleton	11
		The SKULL	12
Oct 6	4	PE 1000 Laboratory Test #1 (5%)	
		Vertebral Column and Thoracic Cage	13
		Pectoral Girdle and Upper Limb	14
		Pelvic Girdle and Lower Limb	15
		The Joints	16
Oct 13	5	Skeletal Muscle Structure	17
		Muscles of the Face and Head	20
		Muscles of Chest, Shoulder, and Arm	21
		Muscles of The Abdominal Wall and Pelvic outlet	22
		Muscles of the Thigh and Leg	23
Oct 20	6	Nerve Tissue	25
		Reflex Arc and Reflexes	
		Meninges and Spinal Cord	28
		Brain and Cranial Nerves	29
		Dissection of the Sheep Brain	30
		Endocrine System	37

Nov 3	7	Receptors and Somatic Senses	31
		Smell and Taste	32
		Ear and Hearing	33
		Sense of Equilibrium	34
		Eye	35
Nov 10	8	Organs of digestive System	38
		Organs of Respiratory System	41
		Blood Cells	45
Nov 17	9	PE 1000 Laboratory Test #2 (7.5%)	
		Structure of the Heart	48
		Blood Vessels	51
		Major Arteries and Veins	53
		Lymphatic System	55
Nov 24	10	Structure of Kidney	56
		Male Reproductive System	59
		Female Reproductive System	60
		Fertilization and Early Development	62
Dec 1		Comprehensive PE 1000 Laboratory Final Test (15%)	

*Lab Manual

Hole, John W. Jr. 1993. Human Anatomy and Physiology
6th Ed. Wm. C. Brown Company Publishers