OFFICIAL UNDERGRADUATE COURSE OUTLINE (page 1)

COURSE IMPLEMENTATION DATE:
COURSE REVISED IMPLEMENTATION DATE: September 2011
COURSE TO BE REVIEWED:
(six years after UPAC approval) *(month, year)*

OFFICIAL UNDERGRADUATE COURSE OUTLINE INFORMATION

Students are advised to keep course outlines in personal files for future use.
Shaded headings are subject to change at the discretion of the department – see course syllabus available from instructor

HSC 210	Nursing	3
COURSE NAME/NUMBER	FACULTY/DEPARTMENT	UFV CREDITS

Pathophysiology I
COURSE DESCRIPTIVE TITLE

CALENDAR DESCRIPTION:

This course introduces the study of the physiology of alterations in health. Students will build on existing knowledge of human anatomy and physiology by examining pathophysiological states. Physiologic changes and responses to illness are addressed in four separate units which encompass the effects of illness on selected body systems and functions. Related microbiology, immunology and pharmacology content will be integrated throughout each unit to reflect the interrelated and holistic nature of the body's response to illness.

PREREQUISITES: HSC 113, HSC 116
COREQUISITES:
PRE or COREQUISITES:

SYNONYMOUS COURSE(S):
(a) Replaces:
(b) Cross-listed with:
(c) Cannot take: for further credit.

SERVICE COURSE TO: *(department/program)*

TOTAL HOURS PER TERM: 45

STRUCTURE OF HOURS:

Lectures:	Hrs
Seminar:	Hrs
Laboratory:	Hrs
Field experience:	Hrs
Student directed learning:	Hrs
Other (specify):	Hrs

TRAINING DAY-BASED INSTRUCTION:
Length of course:
Hours per day:

OTHER:
Maximum enrolment: **32**
Expected frequency of course offerings:
(every semester, annually, every other year, etc.)

WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)	☐ Yes	☒ No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)	☐ Yes	☒ No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:	☐ Yes	☒ No

Course designer(s):
Department Head: **Diane Reed** Date approved: **January 2011**
Supporting area consultation (Pre-UPAC) Date of meeting: **January 14, 2011**
Curriculum Committee chair: **Shellie Steidle** Date approved: **January 2011**
Dean/Associate VP: **Rosetta Khalideen** Date approved: **February 18, 2011**
Undergraduate Program Advisory Committee (UPAC) approval Date of meeting: **February 25, 2011**

LEARNING OUTCOMES:

Upon successful completion of this course, students will be able to:

1. Understand the physiology of alterations in fluid and electrolytes.
2. Understand the physiology of alterations in oxygenation of tissues.
3. Understand the physiology of alterations in skeletal and musculotendinous function.
4. Understand the physiology of alterations in cell function and growth.
5. Understand the physiology of alterations in endocrine function (diabetes mellitus).
6. Understand the physiology of alterations in metabolism, endocrine function, and nutrition.
7. Integrate knowledge of immunology, microbiology, and pharmacology to selected illness processes.

METHODS: *(Guest lecturers, presentations, online instruction, field trips, etc.)*

METHODS OF OBTAINING PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

☐ Examination(s) ☐ Portfolio assessment ☐ Interview(s) ☐ Other (specify):

TEXTBOOKS, REFERENCES, MATERIALS: *[Textbook selection varies by instructor. Examples for this course might be:]*

REQUIRED RESOURCES:

HSC 210 Pathophysiology Course Pack.

Hannon, R., Pooler, C. & Porth, C. M. (Eds.). (2010). Porth Pathophysiology: Concepts of altered health states (1st Canadian ed.). Philadelphia: Lippincott Williams & Wilkins.

SUPPLEMENTAL RESOURCES:

Lilley, L. L., Harrington, S., & Snyder, J. S. (2007). Pharmacology and the nursing process in Canada (1st ed.). Toronto: Elsevier Canada.

Marieb, E. N. (2007). Human anatomy and physiology (7thed.). San Francisco, CA: Pearson Benjamin Cummings.

Van Leeuwen, A. M., Kranpitz, T. P., & Smith, L. (2009).Davis's comprehensive handbook of laboratory and diagnostic tests with nursing implications (3rded.). Philadelphia: F. A. Davis.

SUPPLIES / MATERIALS:

STUDENT EVALUATION: *[An example of student evaluation for this course might be:]*

Exam #1, #2, #3, #4 25% each

COURSE CONTENT: *[Course content varies by instructor. An example of course content might be:]*

1. Alterations in Body Defences
   - alterations in temperature regulation
   - alterations in skin function and integrity
   - mechanisms of infectious disease
2. Alterations in Oxygenation of Tissues
   - alterations in respiratory function
3. Alterations in Metabolism, Endocrine Function, and Nutrition
   - alterations in hepatobiliary system and exocrine pancreas
   - alterations in gastrointestinal function
   - alterations in nutritional status
   - alterations in endocrine growth and metabolism
4. Alterations in Endocrine Function
   - diabetes mellitus
5. Alteration in Fluid and Electrolytes
   - altered fluid/electrolytes
   - altered acid-base balance
   - diagnosis and treatment
6. Alterations in Skeletal and Musculotendinous Function
   - trauma and infection
   - congenital disorders, metabolic bone disease and neoplasms
   - rheumatic disorders
7. Alterations in Cell Functions and Growth
   - cellular adaptation, injury, and death and wound healing
   - cell differentiation and neoplasia