

COURSE IMPLEMENTATION DATE: January 2007
 COURSE REVISED IMPLEMENTATION DATE:
 COURSE TO BE REVIEWED: September 2005
 (Four years after UPAC final approval date) (MONTH YEAR)

OFFICIAL 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 and the material will vary
 - see course syllabus available from instructor

FACULTY/DEPARTMENT:	Faculty of Science, Health and Human Services / Dental Hygiene Program	
DHYG 102	3	
COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS
	Pathophysiology for Dental Hygienists	
COURSE DESCRIPTIVE TITLE		

CALENDAR DESCRIPTION:

This is an introductory course in human pathophysiology, emphasizing the pathogenesis of injury and disease. The course explores general concepts, processes and patterns of disease, using specific diseases as examples. It does not deal specifically with oral pathology, although concepts and diseases discussed will have relevance to dentistry. Selected disease processes and injuries are examined at the cellular, organ and organism level, providing a broad overview of pathophysiology.

PREREQUISITES: **DHYG 101**
 COREQUISITES:

SYNONYMOUS COURSE(S)	SERVICE COURSE TO:
(a) Replaces: _____ (Course #)	_____
(b) Cannot take: _____ for further credit. (Course #)	_____

TOTAL HOURS PER TERM: 45	TRAINING DAY-BASED INSTRUCTION
STRUCTURE OF HOURS:	LENGTH OF COURSE: _____
Lectures: 45 Hrs	HOURS PER DAY: _____
Seminar: Hrs	
Laboratory: Hrs	
Field Experience: Hrs	
Student Directed Learning: Hrs	
Other (Specify): Hrs	

MAXIMUM ENROLLMENT:	16
EXPECTED FREQUENCY OF COURSE OFFERINGS:	Winter term, 1st year only
WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

AUTHORIZATION SIGNATURES:

Course Designer(s): _____ Shauna Warner	Chairperson: _____ Rosie Friesen (<i>Curriculum Committee</i>)
Department Head: _____ Wanda Gordon	Dean: _____ Jackie snodgrass
PAC Approval in Principle Date: _____	PAC Final Approval Date: September 30, 2005

LEARNING OBJECTIVES / GOALS / OUTCOMES / LEARNING OUTCOMES:

The student will be able to:

1. Understand and correctly use appropriate medical / pathological terminology
2. Explain inflammation and healing
3. Describe abnormal immune responses
4. Describe infection
5. Discuss neoplasms
6. Discuss Fluid-electrolyte and Acid-base imbalances
7. Describe aging and disease
8. Discuss stress
9. Discuss cardiovascular disorders
10. Describe respiratory disorders
11. Discuss digestive system disorders
12. Discuss urinary system disorders
13. Describe neurologic disorders
14. Describe endocrine disorders

METHODS:

Primarily lecture with discussions based on assigned required preparatory readings

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

Credit can be awarded for this course through PLAR (Please check:) Yes No

METHODS OF OBTAINING PLAR:

Challenge exam

TEXTBOOKS, REFERENCES, MATERIALS:

[Textbook selection varies by instructor. An example of texts for this course might be:]

Gould, B.E., (2002), Pathophysiology for the Health Professions, 2nd Ed. W.B. Saunders Co.

SUPPLIES / MATERIALS:

STUDENT EVALUATION:

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

The final grade for this course will be assigned, based on the following:

Quizzes (3) and assignments (2)	20%
Midterm exam	35%
Final exam	45%

UCFV letter grading system will be used. A passing grade is 70% (B-)

COURSE CONTENT:

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

Main Themes / Critical Elements are:

1. Appropriate medical / pathological terminology
2. Cellular adaptations to altered conditions / stress; mechanisms of cellular damage; necrosis
3. Mechanism of acute inflammation; vascular and cellular responses of inflammation; types of exudates; chronic vs acute inflammation; treatment of inflammation; process of healing
4. Major features of the cellular components of the immune system; specific and non specific defenses; cell mediated and antibody mediated immunity; immune deficiencies; transplant rejection; autoimmune disorders
5. Pathogenic micro organisms; host / pathogen interaction; transmission, signs and symptoms of infection; antibacterial and

antiviral drugs

6. Benign and malignant neoplasms; pathogenesis of neoplasms; metastasis; grading / staging tumors; major risk factors; diagnostic tests; general treatment options and possible side effects
7. Major causes and consequences of edema and dehydration
8. Theories of aging; key events of the aging process; effects of aging on specific organ systems
9. Stress and how it can cause disease
10. Anemia, coronary artery disease, angina pectoris, myocardial infarction, congestive heart failure, infective endocarditis, pericarditis, hypertension
11. Gastritis, peptic ulcers, hepatitis, cirrhosis, Crohn's disease, ulcerative colitis, appendicitis
12. Pathophysiology of acute and chronic renal failure; hemodialysis and peritoneal dialysis
13. Neurological dysfunction: sensory deficits, speech disorders, seizures, increased intracranial pressure, left and right hemisphere effects, level of consciousness, motor dysfunction
14. Cerebrovascular accidents, transient ischemic attacks, meningitis, encephalitis, Parkinson's disease, Alzheimer's disease
15. Diabetes Mellitus: pathophysiology, acute complications, chronic complications
16. Goiter, hyperthyroidism, hypothyroidism, Cushing's Syndrome, Addison's disease