Course Description

An overview of the disease process and common diseases and their appearance on medical images.

Text, References and Supplies

Text: “Applied Pathology for Radiographers”, by Paul Laudicina

Course Goals/Objectives

The following list of course goals will be addressed in the course. These goals are directly related to the performance objectives.

- describe the difference between structural and functional disease
- explain the significance of degeneration, necrosis, inflammation, and repair
- list the five leading causes of death and discuss their implications on the general population
- list the fundamental tissues and their relationship to disease
- define growth disturbances and their effect on human tissue
- describe the various radiographic methods for imaging selected diseases
- describe the radiographic appearance of selected diseases
- identify the mechanisms that are responsible for the onset of selected diseases
- describe the changes that occur following injury to a cell
- define and identify selected congenital diseases
- explain the TNM system of cancer staging
- explain the significance of cancer in the general population
- describe the standards of measure relating to cancer statistics
- list and describe the four major types of cancer
- list the manifestations of cancer
- describe the three primary methods of cancer treatment
- describe the short and long term effects of cancer
- identify diseases associated with the major body systems
- identify selected diseases on radiographs
- identify radiographic technique changes required for selected diseases
- discuss patient related considerations for imaging selected diseases
- identify diseases associated to age, sex, and race
- describe the appearance of fractures on radiographs

SAFETY TRAINING

Students receive annual training in the following: blood and air borne pathogens, electrical safety, back safety, hazardous chemicals, latex allergies, fire and disaster procedures, security and personal safety procedures and safety requirements of clinical facilities. Students must maintain CPR, immunizations and health insurance during all clinical courses.

Student
Contributions and Class Policies

Attendance is critical in this class. Students must obtain a 70% average for the course to remain in the program. Make-up exams are given with a 10% reduction in score unless prior arrangements have been made with the instructor to take exam early. All missed exams must be made up by the end of the next regular class day attended or no credit will be awarded for the exam. Unit worksheets are due no later than the day of the unit exam. Worksheets can be turned in anytime prior to the exam but will not accepted late. You are encouraged to turn the worksheets in as early as possible in order to get them back prior to the exam. Late arrival to class will constitute a late assignment. Students are strongly encouraged to seek assistance from the instructor should they begin to have difficulties with course material. Office hours are posted and the instructor can be reached at home during off hours. Reading assignments should be completed prior to class. Not all reading material will be covered in lecture but may be included on exams, quizzes, and final. The instructor reserves the right to enact a closed door policy. Should late arrival become a problem then no will be allowed to enter class after lecture has started.

Evaluation of Students

All grades are based on a standard percentage and not curved. Final grades are composed of:

- Unit exams 55%
- Unit Worksheets 20%
- Final exam 25%
- Plus Extra Credit

Course Schedule

Tuesday and Thursday 1:00 to 1:30 pm.

Instructor Information

Name: William Heathman
Office Location: 211 HS
Office Telephone: 685-4691  Home 699-0408
E-Mail Address: wheathman@midland.edu
Office Hours: as posted

Division Chairman and Division Secretary Names: Becky Hammack and Kay Floyd
Division Office Location and Telephone Davidson Family Health Science Building ~ 915/685-4600

Students are encouraged to contact the instructor at any time; however, making an appointment will guarantee the instructor's availability at a specific time.