

**Hagerstown Community College**  
**OFFICIAL COURSE SYLLABUS DOCUMENT**

**COURSE:** RAD 215 – Pathology for Imaging Sciences                      3 Credits

**INSTRUCTOR:** Michelle McDaniel & Donna Carroll **SEMESTER/YEAR:** Summer  
2015 Fall 2015 Spring 2016

**COURSE DESCRIPTION:** This course will focus on common pathological conditions found on X-ray, Computed Tomography, Magnetic Resonance, Ultrasound and Position Emission Tomography images, including protocol appearance variations. The units of CNS, musculoskeletal, neck/thorax and abdominopelvic pathology will be covered. Common pathologies from each of these body sections will be covered. Learning will be enhanced by textbook readings, discussion board activities and special projects including case studies and Power Point presentations. Course fee required. Total of 45 hours of web-based instruction.

**TEXTBOOKS:**

Eisenberg, Ronald L. and Johnson, Nancy M. Comprehensive Radiographic Pathology, 5<sup>th</sup> edition. Mosby, Inc., St. Louis, Missouri, 2007. ISBN# 978-0-323-07847-4

**STUDENT LEARNING OUTCOMES:**

1. Students will be introduced to the terminology related to the study of pathology as well as the methods used to classify and study diseases. This information provides the foundation needed for imaging students to learn about pathology of the body systems, which is the manner in which this course is organized.
2. Students will expand their knowledge of fracture types, joint diseases, congenital and hereditary skeletal diseases, inflammatory and infectious bone diseases, metabolic bone diseases, and bony neoplasms.
3. Students will be able to categorize the diseases and causative agents affecting the following systems:
  - respiratory system
  - skeletal system
  - gastrointestinal system
  - urinary system
  - cardiovascular system
  - nervous system
  - hemapoetic system
  - endocrine system
  - reproductive system

## TOTAL HOURS OF COURSEWORK:

To earn one academic credit at HCC, students are required to complete a minimum of 37.5 clock hours (45 fifty-minute “academic” hours) of coursework per semester. Those hours of coursework may be completed through a combination of hours within the classroom and hours outside the classroom. Certain courses may require more than the 37.5 minimum hours of coursework per credit. This 3 credit course achieves the minimum of 112.5 hours of total time by requiring 50 hours of instructional time and 62.5 hours of student work outside of instructional time.

## ACCOUNTING FOR CREDIT HOUR REQUIREMENT

RAD 215-Pathology for Imaging Sciences

Online Course

Assignment/Assessment

Clock Hours

Reading/Studying for lecture exams	2 exams X 20 hour per exam=40 hours
Research Paper amounting to 6-8 pages of writing with documented resources	20 hours for research, writing and revision
Discussion board assignments	8 hours
Homework and other assignments	22 hours
<b>Total out of class time</b>	<b>90 hours</b>