

Hagerstown Community College
OFFICIAL COURSE SYLLABUS DOCUMENT

COURSE: Principles of CT Imaging RAD 218 4 Credits

INSTRUCTOR: Donna Carroll SEMESTER/YEAR: Spring 2016

COURSE DESCRIPTION: This course focuses on the physics, theories, application and instrumental of Computed Tomography (CT) equipment. Imaging of body areas are discussed in relation to their anatomical composition, pathology, and physiology. Students identify imaging artifacts and determine the adjustment required for correction.

Co-requisites: RAD 212. 4 credits

TEXTBOOK: Computed Tomography for Technologists: A Comprehensive Text. Romans, Lippincott, 2010
Students will maintain an account in Moodle, a web based course management platform designed to provide student access to additional web sites, course information, email, and more.

STUDENT LEARNING OUTCOMES:

1. Define and apply the basic terminology in Computed Tomography
2. Analyze and critique Computed Tomography Images
3. Apply the basic concepts in performing a computed tomography procedure.

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. For most classes, students should expect to do at least 2 hours of coursework outside of class for each hour of in-class coursework.

ACCOUNTING FOR CREDIT HOUR REQUIREMENT: hybrid class

Assignment/Assessment

Clock Hours

Chapter quizzes	10 quizzes X 5 hours per quiz = 50
Reading	24 chap X 2 hours = 48
Midterm exam	1 midterm exam X 15 hours = 15
Comprehensive final exam	1 final exam X 15 hours = 15
Total out of class time	128 hours