

**Middlesex Community College**  
**CAT F205 Bohn 1276 SYALLBUS**

**I. Course Title: CAT \*205 – Cross Sectional Anatomy II**

**II. Credits: 2**

**III. Prerequisites:** Admission to the Computed Tomography Program, ARRT Registered Radiographer, CAT201, CAT202, CAT203, CAT204 with a “C” or better for all. Must be a registered Radiographer (ARRT)

**IV. Semester:** Spring 2018

**V. Instructor:** Jason Bohn, B.S., RT (R)(CT)  
Office Hours: By appointment  
Phone: 860-358-6293  
Email: jason.bohn@midhosp.org

**VI. Course Description:** This course will introduce students to cross sectional imaging of the chest, abdomen, pelvis, and extremities. Emphasis will be placed on anatomy & pathology affecting the chest, abdomen, pelvis and extremities in the application of computed tomography imaging. The uses for and administration of pharmacological agents for CT imaging may be included in this course.

**VII. Course Text:** **Introduction to Sectional Anatomy, 3<sup>rd</sup> Edition**, Madden, 2013, Lippincott Williams & Wilkins.  
**Sectional Anatomy Review**, Madden, 2001, Lippincott Williams & Wilkins.

**VIII. Course Objectives:** At the end of this course, the student will be able to:

1. Discriminate between sectional anatomy planes (coronal, sagittal and transverse).
2. Identify appropriate positioning landmarks for chest, abdomen, pelvis and extremity computed tomography procedures.
3. Discriminate between the various types of pharmacological agents.
4. Determine the appropriate scan and prep delay for pharmacological enhanced procedures.
5. Describe special procedures performed in the computed tomography suite.

**IX. Course Goals:**

1. Provide students with the opportunity to develop and maintain anatomical perspective when discussing the anatomy of the chest, abdomen, pelvis and extremities.
2. Provide students the opportunity to analyze and critically think of anatomical structures of the chest, abdomen, pelvis, and extremities based on corresponding anatomical landmarks.

3. Provide students the opportunity to distinguish between appropriate scan and prep delay for pharmacological agents used in Computed Tomography.
4. Provide student the opportunity to describe and explain special procedures performed in the computed tomography suite.

**X: General Unit Outline:**

- I. Anatomical Planes
  - a. Coronal
  - b. Sagittal
  - c. Transverse (axial)
- II. Anatomy and landmarks of the chest
  - a. Structures of the chest
  - b. Mediastinum, pleural cavities and airway structures
  - c. Chambers of the heart and pulmonary circulation.
  - d. Identify anatomical structures on CT images.
- III. Anatomy and landmarks of the abdomen
  - a. Gastrointestinal tract
  - b. Genitourinary tract
  - c. Accessory organs in the abdomen
  - d. Identify anatomical structures on CT images
- IV. Anatomy and landmarks of the pelvis
  - a. Female pelvic structures
  - b. Male pelvic structures
  - c. Identify anatomical structures on CT images
- V. Anatomy and landmarks of the extremities
  - a. Classifications and location of different joints
  - b. Identify anatomical structures on CT images
- VI. Special procedures in CT
  - a. 3-D studies
  - b. Biopsies
  - c. Drainages
  - d. Colonography
  - e. Transplants
  - f. Screenings

**XI: Course Presentation:** This course consists of the following components:

Assignments	150 points
Final Exam	100 points

**XII: Grade Scale:**

94 = A	83 = B -
92 = A -	80 = C +
89 = B +	77 = C
86 = B	76 = F

**ADDITIONAL COLLEGE INFORMATION:**

**IMPORTANT COLLEGE POLICIES!! PLEASE READ CAREFULLY!**

For information about the college's policies and procedures regarding academic honesty, accessibility/disability services, attendance, audio-recording in the classroom, grade appeals, plagiarism, religious accommodations, weather and emergency closings, and more, please go to the following website:

[www.mxcc.edu/catalog/syllabus-policies/](http://www.mxcc.edu/catalog/syllabus-policies/) or scan the QR code with your smart phone. Also, please become familiar with the policies regarding nondiscrimination, sexual misconduct, and general student conduct at the following website: [www.mxcc.edu/nondiscrimination/](http://www.mxcc.edu/nondiscrimination/).

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*Primary Title IX Coordinator*

*Dr. Adrienne Maslin*

*Dean of Students/Title IX and Section 504/ADA Coordinator*

*[amaslin@mxcc.edu](mailto:amaslin@mxcc.edu); 860-343-5759; Founders Hall Room 123*

*Secondary Title IX Coordinator*

*Ms. Mary Lou Phillips*

*Director of Human Resources, Middlesex Community College*

*[mphillips@mxcc.edu](mailto:mphillips@mxcc.edu); 860-343-5751; Founders Hall Room 115*

*Secondary Title IX Coordinator*

*Ms. Queen Fordham*

*Coordinator of the Meriden Center Welcome Desk*

*[qfordham@mxcc.edu](mailto:qfordham@mxcc.edu); 203-608-3011*

**CELL PHONE POLICY: \*Whether in clinical or class, personal cell phones should be placed on silent mode and put away so that professional activities are not disrupted. Students are not permitted to “text” during class or clinic.**

**CAT\*205 - Cross Sectional Anatomy II**

## Course Topics and Schedule

<b>Week</b>	<b>Study Topic(s)</b>	<b>Assignment(s)</b>	<b>Points</b>
1	General Concepts		
2	Structures of the chest	Module 6 assignment 1	25
3	Heart and pulmonary circulation		
4	Review of images of the chest	Module 6 assignment 2	25
5	Structures of the Gastrointestinal tract and portal system		
6	Structures of the Genitourinary tract	Module 7 Assignment 1	25
7	Review of images of the abdomen		
8	Structures of the Pelvis	Module 8 Assignment 1	25
9,10	Review of images of the pelvis		
11,12,	Structures of the Extremities (joints)	Module 9 Assignment 1	25
13	Extremities cont'd	Module 9 Assignment 2	25
14	Review		
15	Final Exam		100

**\*SUBJECT TO CHANGE WITH NOTIFICATION\***