

Middlesex Community College

SYALLBUS

I. Course Title: CAT *201 – Cross Sectional Anatomy I

II. Credits: 1

III. Prerequisites: Admission to the Computed Tomography Program, ARRT Registered Radiographer

IV. Semester: Fall 2018

V. Instructor: Jason Bohn, MBA, RT (R)(CT)
Office Hours: By appointment
Phone: 860-358-6293 7:00am – 3:30pm
Email: jason.bohn@midhosp.org

VI. Course Description: This course will introduce students to cross sectional imaging of the head and neck. Emphasis will be placed on pathology affecting the cranial cavity and neck in the application of computed tomography imaging. The uses for and the administration of pharmacological agents for CT imaging will be included in this course. *Prerequisites: Admission to the Computed Tomography Program, ARRT Registered Radiographer*

VII. Course References: **Sectional Anatomy Essentials Institutional Software;** www.asrt.org/sectionalanatomy
And
CT Basic Institutional Software: www.asrt.org/CTBasics
Sectional Anatomy for Imaging Professionals, 3rd Edition
Author: Lorrie Kelley, Connie Peterson
ISBN: 978-0-323-08260-0

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 cranial cavity and neck computed tomography procedures.
3. Discriminate between the various types of pharmacological agents.

IX. Course Goals:

1. Provide students with the opportunity to develop and maintain anatomical perspective when discussing the anatomy of the head and neck.
2. Provide students the opportunity to analyze and critically think of anatomical structures of the head and neck based on corresponding anatomical landmarks.

3. Provide students the opportunity to distinguish between pharmacological agents used in Computed Tomography.
4. Provide student the opportunity to disseminate between appropriate indications, contraindications, administration routes and dose calculations for pharmacological agents used during Computed Tomography procedures.

X: General Unit Outline:

- I. Anatomical Planes
 - a. Coronal
 - b. Sagittal
 - c. Transverse (axial)
- II. Anatomy of the Cranium
 - a. Inferior boundary of the skull
 - b. Bones of the skull
 - c. Anatomical structures located in the skull
- III. Anatomy of the Neck
 - a. Larynx
 - b. Pharynx
 - c. Blood vessels
- IV. Pharmacological agents
 - a. Names
 - b. Indications
 - c. Contraindications
 - d. Dose calculations
 - e. Administration routes

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

Assignments	175 points-	75.0%
Final Exam	100 points-	25.0%
Total	275 points-	100%

XII: Grade Scale:

$\geq 94 = A$	$83-85 = B -$
$92-93 = A -$	$80-82 = C +$
$89-91 = B +$	$77-79 = C$
$86-88 = B$	$\leq 76 = F$

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/ 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/.

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Primary Title IX Coordinator

Dr. Adrienne Maslin

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

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; 860-343-5751; Founders Hall Room 115

Secondary Title IX Coordinator

Ms. Queen Fordham

Coordinator of the Meriden Center Welcome Desk

qfordham@mxcc.edu; 203-608-3011

CAT*201 Cross Sectional Anatomy I

Course Topics and Schedule

Module	Study Topic(s)	Assignment(s)	Points
1	Introduction to course and General Concepts	Mod 1 Assignment 1	25
2	Cranial and Facial Bones Landmarks and Structures	Mod 2 Assignment 1	25
3	CNS structures, cranial nerves, dural venous system	Mod 3 Assignment 1 Mod 3 Assignment 2	25 25
4	Spine Landmarks and Structures	Mod 4 Assignment 1	25
5	Structures of the neck, Vessels, nerves and vertebrae of the neck	Mod 5 Assignment 1	25
5.2	Pharmacology – Names, classifications and routes Dose Calculations, indications and contraindications	Mod 5.2 Assignment	25
	Final Exam Activity	Accumulative Information from Sectional Anatomy Essentials Modules 1 -5 and CT Basics Module 5 (5.2)	100
Total Points			275

SUBJECT TO CHANGE WITH NOTIFICATION

Module 1-5 – Sectional Anatomy Essentials – www.asrt.org/sectionalanatomy

Module 5.2 – CT Basics Module 5 – www.asrt.org/CTBasics