MRAD 281 – Computed Tomography Theory 2 – Course Reading List

Course Texts:

Kelley, L, & Petersen, C. (2018). Sectional anatomy for imaging professionals (4th ed.). Philadelphia, PA: Elsevier.

Romans, L. (2019). Computed Tomography for technologists: A comprehensive text (2nd ed). Baltimore, MD: Lippincott, Williams & Wilkins.

Outcome	Reading
Intro.	**Romans, L** Chapter 1: Basic Principles of CT, pages 3 – 13 Chapter 11: Patient Preparation, pages 114 - 119 (Including Patient Education & Informed Consent) Chapter 13: Injection Techniques, pages 148-170 **Kelley, L. & Petersen, C** Chapter 1: Introduction to Sectional Anatomy, pages 1-12
1 Abdomen	**Romans, L** Chapter 17: Abdominopelvic Anatomy, pages 222 – 231 Chapter 21: Abdomen & Pelvis Imaging Procedures, pages 307 - 340 **Kelley, L. & Petersen, C** Chapter 7: Abdomen, pages 399 – 491 **Exclude lymph nodes, and muscles of the abdominal wall*

2 Chest	**Romans, L** Chapter 16: Thoracic Anatomy, pages 212 – 221 Chapter 20: Thoracic Imaging Procedures, pages 273 – 279 **Exclude Cardiac CT* **Kelley, L. & Petersen, C** Chapter 6: Thorax, pages 309 – 327; pages 351 – 368 **Exclude lymphatic system, heart and vasculature, coronary circulation, off-axis cardiac imaging, azygous venous system, muscles, and breast.*
3 Head	**Romans, L** Chapter 15: Neuroanatomy, pages 191 – 205 Chapter 19: Neurologic Imaging Procedures, pages 247 – 272

	Kelley, L. & Petersen, C Chapter 2: Cranium & Facial Bones, pages 13 – 85 ** Exclude structures of the external, middle and inner ear, sutures, fontanels, temporomandibular joints, and soft-tissue structures of the eye* Chapter 3: Brain, pages 89 – 171 **Exclude the limbic system and cranial nerves*
4 Neck	**Romans, L** Chapter 15: Neuroanatomy, pages 206 – 208 Chapter 19: Neurologic Imaging Procedures, pages 249 – 259; page 266-267 (COW/Carotid); page 268 (Neck Soft Tissue) **Kelley, L. & Petersen, C** Chapter 5: Neck, pages 250 – 277; pages 302 – 308 (Vascular Structures) **Exclude cervical lymph nodes, fascial planes and spaces, muscles*
5 Pelvis	**Romans, L** Chapter 17: Abdominopelvic Anatomy, pages 222 - 231 Chapter 21: Abdomen & Pelvis Imaging Procedures, pages 307 - 340 **Kelley, L. & Petersen, C** Chapter 8: Pelvis, pages 497 – 565 **Exclude muscles, and lymph nodes*

6 Spine	**Romans, L** Chapter 15: Neuroanatomy, pages 209 – 211 Chapter 19: Neurologic Imaging Procedures, page 250; pages 269- 271 **Kelley, L. & Petersen, C** Chapter 4: Spine, pages 172 – 191; 210-228; **Exclude ligaments, muscles, plexuses, and vasculature*
7 Extremities	**Romans, L** Chapter 18: Musculoskeletal Anatomy, pages 232 – 243 Chapter 22: Musculoskeletal Imaging Procedures, pages 341-350 **Kelley, L. & Petersen, C** Chapter 9: Upper Extremity, pages 569-575; pages 606-611; pages 626-633 Chapter 10: Lower Extremity, pages 660-664; pages 687-694; pages 719-727 **Focus on Bony Anatomy only*