MRAD 251 – Computed Tomography Theory 1 – Course Reading List

Outcome	Required Reading	
	Romans	*Handouts*
1	Ch. 1	• CT Principles • X-ray Imaging Principles
	Ch. 3 Ch. 4: **pg. 32-36** (up to "*Image Display Options")* Ch. 5: **pg. 41-49** (up to and including "*Box 5-5 Key Concept*") **pg. 52-58** (start at "*Applications*" up to "MDCT: Reconstructed Slice Thickness") *Exclude "***Effective Slice Thickness***" on pg. 54* Ch. 6: **pg. 68-70** (start at "*Reconstruction Algorithm" up* to "*Focal Spot Size")*	
2	Ch. 2 Ch. 5: **pg. 49-52** (start at "*Box 5-5 Key Concept*" up to "*Applications*") **pg. 58** (start at "MDCT: Reconstructed SliceThickness") Ch. 9	
	Ch. 23	• CT Acquisition Review; Gens, & Other Apps
	Ch. 24	• CT in Nuclear Imaging
	Ch. 4: **pg. 36-40** (start at "*Image Display Options*") Ch. 5: **pg. 54** (only "*Effective Slice Thickness*") Ch. 6	

3	Ch. 7: **pg. 78-83** only (start at "*Image Artifacts*") Ch. 8	
6	Ch. 10 Ch. 11	• CT Requisitions
7	Ch. 12	
	Ch. 13	

5	Ch. 14 http://tech.snmjournals.org/content/35/4/213.full http://www.eurosafeimaging.org/wp/wp-content/uploads/2016/04/Paediatric-imaging-WG_TipsTricks2.pdf	• Radiation Safety & Dosimetry in CT
4	Ch. 7: **pg. 74-77** • SC 35 pg. 38-56 o Online access to SC 35 (Section C): https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/radiation/safety-code-35-safety-procedures-installation-use-control-equipment-large-medical-radiological-facilities-safety-code.html	• CT QA & QC
	Final Exam Prep	