

EE 791
Suggested Readings for Physiology Content

- Source:** **Guyton and Hall, Textbook of Medical Physiology, Tenth Edition, Saunders**
Other editions of Guyton's Medical Physiology can be used (e.g. 8 and 9)
- Chapter 4 Pages 40 – 51
Transport of Substances Through the Cell Membrane
- Chapter 5 Pages 52 – 66
Membrane Potentials and Action Potentials
- Chapter 6 Pages 67 – 79
Contraction of Skeletal Muscle
- Chapter 7 Pages 80 – 86
Excitation of Skeletal Muscle: A. Neuromuscular Transmission and B.
Excitation – Contraction Coupling
- Chapter 45 Pages 512 – 527
Organization of the Nervous System; Basic Functions of Synapses and
Transmitter Substances
- Chapter 46 Pages 528 – 539
Sensory Receptors; Neuronal Circuits for processing Information
- Chapter 47 Pages 540 – 551
Somatic Sensations: I. General Organization; Tactile and Position Senses
- Chapter 54 Pages 622 – 633
Motor Functions of the Spinal Cord; the Cord Reflexes
- Chapter 55 Pages 634 – 640
Cortical and Brain Stem Control of Motor Function
- Chapter 57 Pages 663 – 677
The Cerebral Cortex; Intellectual Functions of the Brain; and Learning and
Memory
- Chapter 58 Pages 678 – 688
Behavioural and Motivational Mechanisms of the Brain – The Limbic
System and the Hypothalamus
- Chapter 59 Pages 689 – 696
States of Brain Activity – Sleep; Brain Waves: Epilepsy; Psychoses