## Checklist for Midterm #2 Physiology 2130 2019-2020 TA: Greydon Gilmore

## Chapter 4 – Endocrinology

☐ Adrenal gland structure, hormones produced
☐ Cortisol regulation and effects on the body
☐ Effects of epinephrine and aldosterone on the body
☐ Pancreatic hormones and their effects on the body
Chapter 5 – Autonomic Nervous System
$\square$ Know the structure and anatomy of the autonomic and somatic nervous systems
$\square$ What are the similarities and differences between the sympathetic and parasympathetic pathways
$\square$ Understand the effects of the sympathetic and parasympathetic systems on body organs
Chapter 6 – Muscle Physiology
☐ Structure of the skeletal muscle
$\hfill\square$ Explain the pathway of muscle contraction starting from the presynaptic action potential (end plate potential)
$\square$ Structure and function of thick and thin myofilaments
☐ Explain the power stroke
$\square$ What is a muscle twitch, how are contractions graded and what is meant by tetanus?
Chapter 7 – Cardiovascular Physiology
☐ General anatomy of the cardio system
☐ Total blood volume distribution
☐ Describe the anatomy of the heart
☐ What are the different myocardial cells?
$\hfill\square$ Describe the nodal and conducting cells and how the impulse travels through the heart
☐ Draw and label the ECG waveform
☐ Describe the stages of the cardiac cycle
☐ Understand cardiac output, stroke volume, heart rate, EDV, ESV

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$\square$ Know the effect of the sympathetic and parasympathetic systems on the heart
$\square$ Relationship of blood flow, pressure and resistance
☐ Structure and function of various blood vessels
$\square$ Understand the exchange within capillaries (including the pressures)
$\square$ Describe humoral regulation and the different agents
☐ Describe neural control mechanisms
$\square$ What is the baroreceptor reflex?
☐ Describe the mean arterial pressure