

Neurophysiology

Class Hours: 10:30~11:45; Mon. & Wed.

Class Units: 3

Lecture Room: College of Electronics and Information #227

Instructor: Tae-Seong Kim, Ph.D.

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Textbook

Textbook of Medical Physiology, 10th Edition, Guyton & Hall, H.I.E. Saunders.

Principles of Neural Sciences, Eric Kandel, McGraw Pub. Comp.

Lecture Methods: lecture, discussion, homework, and handout

Class Schedule

Week 1: Membrane Potentials and Action Potentials

Week 2: Organization of the Nervous Systems

Week 3: Sensory Receptors

Week 4: Somatic Sensation

Week 5: Optics of Vision

Week 6: Receptor and Neural Function of the Retina

Week 7: Central Neurophysiology of Vision

Week 8: The Sense of Hearing

Week 9: Midterm Exam

Week 10: The Chemical Senses

Week 11: Skeletal Muscles

Week 12: Excitation of Skeletal Muscle

Week 13: Contraction and Excitation of Smooth Muscle

Week 14: Motor Functions

Week 15: Cerebral Cortex

Week 16: Final Exam

Homework: Weekly homework assignments

Grading system: attendance (10%), homework (20%), midterm (30%), and final (40%)