

Title and Code of Course: ERPB-BPSA 0120 Biological Studies 1.

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Credit Point Value: 6	Number of Lessons per Week: 3	Type of Course: Seminar <input type="checkbox"/> <u>Lecture X</u>	Method of Evaluation: Oral Examination <input type="checkbox"/> In-Class Presentation <input type="checkbox"/> <u>Other X</u>
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Course Description:

- Functional anatomy of the eukaryotic cell
- Extracellular and intracellular signals, signal transduction mechanisms
- Main tissue types
- Structure and function of neurons, resting and action potential, synaptic transmission, neurotransmitters
- Gross anatomy of the nervous system
- The somatic motor system: the role of the spinal cord, brainstem, motor cortex, cerebellum and basal ganglia
- The somatic sensory system: tactile sensation, proprioception, nociception and thermosensation
- The visual system: vision and visual perception
- The auditory system and the vestibular system
- The olfactory and gustatory system

Bibliography:

- Nolen-Hoeksema, S., Fredrickson, B., Loftus, G. R. and Lutz, C. (2014) *Atkinson & Hilgard's Introduction to Psychology* (16th ed). Cengage Learning.
- Purves, D. (2012.) *Neuroscience*. (5th ed.). Sinauer Associates, Inc.
- Waxman, S. G. (2016) *Clinical Neuroanatomy* (28th ed.) McGraw-Hill Education.