

**SYLLABUS**

<b>Program</b>	Medicine
<b>TRACK</b>	Surgery
<b>COURSE</b>	Applied Morphology Seminars I
<b>CODE AND CREDITS</b>	33241-02
<b>HOURS</b>	30
<b>TERM:</b>	Starting in 2016/1

**OBJECTIVES:** At the end of the course, students will be able to:

1. Revisit significant topics in morphology in clinical practice;
2. Correlate these topics with clinical events and their symptomatology and diagnosis;
3. Approach the human anatomy from a systematic perspective.

**COURSE DESCRIPTION:**

Application of topographic morphology, basic physiology and imaging into the identification of anatomical references of clinical application. Integration of the morphological aspects addressed in the student's training with the diagnostic and treatment instruments used in everyday clinical and surgical practice.

**METHODOLOGY:**

- Students will be divided into two groups.
- In each class, students will go over the topics in their schedule.
- In 2018/2, students will see the same topics in the course on Applied Morphology Seminars II.
- Students are expected to enroll in the same classes by 2018/1 and 2018/2.
- The class will consist of 13 lectures.
- The topics will be addressed under a systematic perspective of human anatomy mirroring real-life medical practice situations.

**THEORY ACTIVITIES:**

- Clinical manifestations of brain tumors: cortical anatomy and location of functional areas.
- Vision development: Anatomy, Physiology and Embryology of Vision
- Spine deformities: anatomy and mobility
- Bone marrow and envelopes: Clinical Syndromes
- Upper limb anatomy: innervation, vascularization and muscles in clinical situations
- Anatomy of the hand: vascular, neurological and tendon injuries
- Dysphagia: anatomy and physiology of swallowing
- Dysphonias: larynx anatomy, vocal chords physiology and voice disorders
- Rib cage anatomy: congenital deformities and tumors

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- Pulmonary and bronchial tree anatomy: broncho-pulmonary inflammatory diseases
- Esophageal Atresia: Applied Anatomy and Embryology
- Anorectal Malformation
- Cerebral hemorrhage: cerebrovascular anatomy and pathologies
- Physiology of pain
- Surgical anatomy of the liver and biliary tract
- Anatomy of the heart
- Peripheral vascular anatomy
- Surgical anatomy of the esophagus, stomach and duodenum
- Anatomy of the inguinal region and its pathologies
- Upper and lower urinary tract obstruction
- Surgical anatomy of thyroid and parathyroid glands
- Orthopedic defects in children: the development of the locomotor system
- Anatomy and physiology for bariatric surgery
- Anatomy and physiology of urination
- Anatomy and physiology of erection
- Anatomy and physiology of defecation and fecal continence

#### **BIBLIOGRAPHY:**

#### **BASIC:**

- NETTER, F. Atlas de anatomia humana. 5. ed. Rio de Janeiro: Elsevier, 2011
- MOORE, L. K.; DALLEY II, A. F. Anatomia orientada para clínica. 4. ed. Rio de Janeiro: Guanabara Koogan, 2006.
- DOUGLAS, C. R. Tratado de fisiologia aplicada à ciência da saúde. 6. ed. São Paulo: Robe, 2006.

#### **COMPLEMENTARY:**

- ROYDEN, Jonas Jr. Neurologia de Netter. Sistema Nervoso, Cérebro Parte 1. Porto Alegre: Artmed, 2013.
- ROYDEN, Jonas Jr. Neurologia de Netter. Sistema Nervoso, Medula Espinal e Sistema Nervoso Periférico - Parte 2. Porto Alegre: Artmed, 2013.
- (Brig) SINGH, H. et al. Atlas of Human Anatomy on CT Imaging. 1 ed. New Delhi: JPB, 2010.
- HEUCK, A. Et al. Atlas de ressonância magnética do sistema musculoesquelético. 2 ed. São Paulo: Manole, 2012.
- REIF, E. Atlas de anatomia radiológica. 1 ed. Porto Alegre: ARTMED, 2011.

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