

Course Title:

Anatomy with embryology and basic genetics

Course Director:

Prof. dr hab. Jerzy Walocha

Coordinator /contact:

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Responsible person/contact:

Dr n.med. Małgorzata Mazur\ malg.mazur@uj.edu.pl

Address:

Chair of Anatomy, Kopernika 12 street

Year:

1-DDS

Total number of hours:

159

Lectures:

45

Seminars:

Labs/Practicals:

114

Others (e.g. recitation):

Obligatory readings

Exams:

5

Conduct/Dress Code:

White lab coat and single-use gloves

Student's Evaluation:

-credit requirements:

Several mid-semester tests will take place following the syllabus

The tests will consist of two parts :

a). the laboratory part (identification of parts of organs) –**20 questions** (you can receive maximally 2 points for each well recognized specimen). There is 30 seconds per each specimen for its recognition during a mid-semester test and during the final exam. IN PERSON (in dissection rooms).

Passing the laboratory part **is NOT a prerequisite** for participation in the second part of the mid-semester test.

The list of specimens placed in the end of syllabus is a **supplementary** list only (it is only a help for the Students), so both during the mid-semester and final practical exams, some extra specimens (out of the list) can be used.

b). the theoretical part (TEST : multiple choice, matching, etc.) - **60 questions** (1 point for each correct answer). The test lasts 90 minutes. Question will be based on lectures , labs and a few from obligatory readings. Each student will receive confidential code number. ONLINE

Results of the test are available on the web-page of the Chair of Anatomy (www.katedra-anatomii.cm-uj.krakow.pl)→ STUDENCI → dentistry

Only Students who have received at least **50%** from all mid-semester tests (**average**, including both theoretical and practical, conted together)are allowed to take the final anatomy exam (both practical exam and the test).

A Student can be exempted from the final anatomy exam if the results of all mid-semester tests (**including both practical and theoretical tests**) AVERAGE- exceed **90%**.

A Student is exempted from the final practical exam if results of **all practical mid-semester tests** exceed **80% (average)**.

Week 1 October 2 nd Asynchronous lecture on MS team	Day Wed	Time 9.45- 10.30	Type of classes lab	of hours 1	Group I,II	Introduction to dissection classes	Teacher Prof.J Walocha, Dr M.Mazur	Place Dissecti room 1,
Week 2 October 7-11	Mo	9.45-11.15	lab	2	I,II	Vertebral column – General characteristics of a vertebra. Cervical, thoracic, lumbar vertebrae. Sacrum, coccyx. Intervertebral disc. Joints of vertebral column. Atlanto- occipital joints. Atlanto- axial joints. Curves of vertebral column.	Prof. Jerzy Walocha, MD, Ph.D/ Dr Małgorzata Mazur, MD,PhD	Dissection room 1,3
	Mo	12.15- 13.45	lec	2	Whole class	Connective Tissue : general structure of the bone, Biological & mechanical properties of bones. Classification of bones. Joints : fibrous, cartilaginous & synovial joints.	Prof. Jerzy Walocha, MD, Ph.D	E-learning MS team DDS 23\24
	Wed	10-11.30	lab	2	I, II	Ribs. Sternum. The thoracic cage. Bones of the shoulder girdle: scapula, clavicle. Acromioclavicular, sternoclavicular joint.	Prof. Jerzy Walocha, MD, Ph.D\ Dr Małgorzata Mazur, MD,PhD	Dissection room 1,3
	Wed	11.30-13	lab	2	I,II	Practical review	Dr M.Mazur	Dissection room 1,3
week 3 October 14-18	Mo	9.45- 11.15	Lab	2	I,II	Humerus. Shoulder joint. Radius. Ulna. Bones of the hand. Elbow joint. Wrist joint. The carpal tunnel. The hand as a functional unit.	Prof. Jerzy Walocha, MD, Ph.D/ Dr Małgorzata Mazur, MD,PhD	Room 1,3
	Mo	12.15- 13.45	lec	2	Whole class	Vascular system: Heart. Blood vessels. Lymphatic system. Muscles and Structures Associated with Muscles.	Prof. Jerzy Walocha, MD, Ph.D/	E-learning
	Wed	10-11.30	Lab	2	I,II	The bony pelvis. Hip bone. Sacroiliac joints. Symphysis pubis. Greater & lesser sciatic foramina. Inguinal ligament. Sex	As above	Room 1,3

						differences of the pelvis. Femur. Hip joint. Acetabulum. Tibia. Fibula. Patella. Knee joint. (intra- & extracapsular ligaments) Menisci. Bones of the foot. Ankle joint.		
	Wed	11.30-13	lab	2	I,II	Practical review	Dr M.Mazur	Room 1,3
week 4 October 21-25(asynchronous lecture on MS team)	Mo	9.45- 11.15	lab	2	I,II	Bones of the Neurocranium. Frontal Bone. Occipital Bone. Sphenoid bone.	As above	Room 1,3
	Mo	12.15- 13.45	lec	2	Whole class	Divisions of the skull. Development of the skull.	Prof. Jerzy Walocha	E-learning
	Wed	10.00 - 11.30	Lab	2	I,II	Ethmoid Bone. Parietal Bone. Temporal Bone. Review of the specimens.	As above	Room 1,3
		11.30-13	lab	2	I,II	Practical review	Dr M.Mazur	Room1,3
week 5 October 28-31 (aynchronus lecture on MS team)	Mo	9.45- 11.15	Lab	2	I,II	Bones of the Visceral Cranium. Mandible. Hyoid Bone. Maxilla. Palatine Bone. Inferior Nasal Concha. Lacrimal Bone. Vomer. Zygomatic Bone. Zygomatic and mandible fractures.	As above	Room 1,3
	Mo	12.15- 13.45	lec	2	Whole class	The Ear: External Ear. Middle Ear (Tympanic Cavity). Inner Ear (Osseous Labyrinth).	Prof. Jerzy Walocha	E-learning

	Wed	10.00 - 11.30	Lab	2	I,II	Anterior, middle , posterior cranial fossae. Temporal, infratemporal, retromandibular and pterygopalatine fossae.	As above	Room 1,3
		11.30-13	lab	2	I,II	Practical review	Dr M Mazur	Room 1,3

week 6 November 4- 8	Mo	9.45-11.15	Lab	2	I,II	Orbital, nasal and oral cavity.	As above	Room 1,3
	Mo	12.15-13.45	lec	2	Whole class	Test 1 –osteology , skull and basic anatomy(60 questions)	Prof. Jerzy Walocha	E-learning
	Wed	10-11.30 11.30-13	Lab lab	2 2	I,II I,II	Practical review Practical review	As above Dr M.Mazur	Room 1,3 As above

week 7 November 13 11 th of November – Independence day-day off								
	Wed	10.00-11.30	Lab	4	I,II	Practical exam on osteology and skull-20 details.	As above	Room 1-5

Week 8 November 18-22								
	Mo	9.45-11.15	Lab	2	I,II	Spinal cord, brainstem, medulla oblongata, midbrain.	As above	Room 1,3
	Mo	12.15-13.45	lec	2	Whole class	Introduction into the anatomy of the Nervous system. Divisions of the nervous system. Neurons. Central, peripheral and autonomic nervous system.	Prof. Jerzy Walocha	E-learning
	Wed	10.00-11.30	Lab	2	I,II	Exit of the cranial nerves from brain. Brainstem and its relation with the cerebellum, Cerebellum. Interbrain. 3 rd and 4 th ventricles.	As above	Room 1,3
		11.30-13	lab	2	I,II	Practical review	Dr M.Mazur	As above

week 9 November 25-29								
	Mo	9.45-11.15	Lab	2	I,II	Telencephalon(hemisphere). Brodman areas. Blood supply of the brain	As above	Room 1,3
		12.15-13.45	lec	2	Whole class	Motor neuronal tracts	Prof. Jerzy Walocha	E-learning
	Wed	10:00-11:30	Lab	2	I,II	Practical review	As above	Room 1,3
		11.30-13	lab	2	I,II	Practical review	Dr M.Mazur	As above
Week 10 December 2-6	Mo	9.45-11.15	Lab	2	I,II	Practical review.	As above	Room 1,3
		12.15-13.45	lec	2	Whole class	Sensory neuronal tracts	Prof. Jerzy Walocha	E-learning

	Wed	10.00-11.30	Lab	2	I,II	Practical review	As above	Room 1,3
		11.30-13	lab	2	I,II	Practical review	Dr M.Mazur	As above

week 11 December 9-13								
	Mo	9.45-11.15	Lab	2	I,II	Practical review	As above	Room 1,3
		12.15-13.45	lec	2	Whole class	Test 2 on central nervous system- 60 questions	Prof. Jerzy Walocha	online
	Wed	10.00-11.30	lab	4	I,II	Practical exam on CNS- 20 questions.	As above	Room 1-5

week 12 December 16-20 (Asynchronous lecture on MS team)								
	Mo	9.45-11.15	Lab	2	I,II	Muscles of the neck and nuchal region. Cervical plexus	As above	Room 1,3
		12.15-13.45	lec	2	Whole class	The orbit and its walls. Structure of the Eyeball. Nerve & blood supply of the eyeball. Ciliary ganglion. Nerve & blood supply of the eyeball. Ciliary ganglion. The accessory organs of the eyeball (muscles, eyelids, lacrimal apparatus). Optic nerve Oculomotor nerve. Trochlear nerve. Abducent nerve. Clinical notes : Horner's syndrome. Crocodile tears syndrome. Glaucoma. Cataract. Retinal detachment	Prof.Jerzy Walocha	E- learning

	Wed	10-11.30	Lab	2	I,II	Surface anatomy of the neck. Triangles of the neck.	As above	Room 1,3
		11.30-13	lab	2	I,II	Thyroid gland. Parathyroid glands.		
						Practical review	Dr M.Mazur	As above

23.12.2024-6.01.2025 CHRISTMAS BREAK

week 13 January 8 th (Asynchronronus Lec on MS team)								
	Wed	10-11.30	Lab	2	I, II	Vagus nerve, accessory nerve, hypoglossal nerve and sympathetic trunk(cervical part). External and internal carotid arteries, external and internal jugular veins. Eyeball practically.	As above	Room 1,3
		11.30-13	lab	2	I,II	Practical review	Dr M.Mazur	As above

week 14 January(13-17)asynchronous Lec on MS team)								
	Mo	9.45-11.15	Lab	2	I,II	Pharynx, parapharyngeal space, glossopharyngeal nerve, tonsils	As above	Room 1,3
		12.15-13.45	lec	2	Whole class	The Ear (external, middle & internal). Vestibulocochlear nerve. Temporomandibular joint. Clinical notes : Hyperacusis. Otosclerosis. Conductive deafness. Otitis media. Meniere's disease (labyrinthine hydrops).	Prof . Jerzy Walocha	e-learning

	Wed	10.00-11.30	lab	2	I,II	Larynx- structure, blood and nerve supply, lymph drainage .Auricle features .	As above	Room 1,3
		11.30-13	lab	2	I,II	Practical review	Dr M.Mazur	As above
Week 15 January 20-24(asynchronous Lec on MS team)	Mon	9.45-11.15	Lab	2	I,II	Practical review	As above	Room 1,3
		12.15-13.45	lec	2	Whole class	Test 3 on neck, ear and eye- 60 questions	Prof. Jerzy Walocha	online
	Wed	10.00-11.30	lab	4	I,II	Practical exam on neck, ear and eye- 20 questions.	As above	Room 1-5

27.01.2025 -24.02 .2025 EXAMS AND WINTER BREAK

week 1 February 24-28	Mo	9.45-11.15	Lab	2	I,II	Blood and nerve supply of the face. Facial artery and nerve. Muscles of the facial expression. Parotid gland.	As above	Room 1,3
		12.15-13.45	lec	2	Whole class	Development of the face and teeth.	Prof. Jerzy Walocha	E-learning
	Wed	10.00-11.30	lab	2	I,II	Dura mater venous sinuses. Venous drainage of the head. Blood & nerve supply of the meninges.	As above	Room 1,3

week 2 March 3-7	Mo	9.45-11.15	Lab	2	I,II	Oral cavity.Teeth.Gingiva. The tongue	As above	Room 1,3
	Wed	10.00-10.45	lab	1	I,II	Maxillary artery. Maxillary nerve.	As above	Room 1,3
Week3 March 10-14	Mo	9.45-10.30	Lab	1	I,II	Mandibular division of trigeminal nerve.Muscles of mastication.	As above	Room 1,3
		12.15-13.45	lec	2				

					Whole class	Communication of the pterygopalatine and infratemporal fossa (clinical correlation)	Prof Jerzy Walocha	E-learning
	Wed	10.00-10.45	lab	1	I,II	Pterygopalatine, infratemporal and retromandibular fossae.	As above	Room 1,3
Week 4 March 17-21	Mo	9.45-10.30	Lab	1	I,II	Nasal cavity- walls, nerve & blood supply. Paranasal sinuses-practically	As above	Room 1,3
	Wed	10.00-10.45	lab	1	I,II	Practical review	As above	Room 1,3

Week 5 March 24-28	Mo	9.45-10.30	Lab	1	I,II	Practical review	As above	Room 1,3
		12.15-13.45	lec	2	Whole class	Test 4 – on head(60 questions)	Prof.J.Walocha	online
	Wed	10.00-11.30	lab	2	I,II	Practical exam on head- 20 questions.	As above	Room 1-5

Week 6 March 31- April 4	Mo	9.45-10.30	Lab	1	I,II	Thoracic walls- muscles, vessels , nerves. The diaphragm. Mediastinum.	As above	Room 1,3
	Wed	10.00-10.45	lab	1	I,II	Lungs and heart	As above	Room 1,3

Week 7 April 7-11	Mo	9.45-10.30	Lab	1	I,II	Large vessels of the thorax: SVC, IVC, Aorta, pulmonary trunk, Pulmonary veins.	As above	Room 1,3
	Wed	10.00-10.45	lab	1	I,II	Azygos veins. Vagus & phrenic nerves. Thoracic part of ST.	As above	Room 1,3

EASTER BREAK 14-22.04.25

Week 8 April 23 and 29	Mo	9.45-10.30	Lab	1	I,II	Muscles of the shoulder girdle and arm.	As above	Room 1,3
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	Wed	10.00-10.45	lab	1	I,II	Muscles of forearm and hand	As above	Room 1,3

May break 02.05.25-3.05.25

Week 9 May 5-9	Mo	9.45-10.30	lab	1	I,II	Nerves of upper limb .	As above	Room 1,3
	Wed	10.00-10.45	lab	1	I,II	Arterial and venous blood supply of upper limb.	As above	Room 1,3

Week 10 May 12-16	Mo	9.45-10.30	Lab	1	I,II	Walls of abdomen and pelvis.Peritoneum.	As above	Room 1,3
	Wed	10.00-10.45	lab	1	I,II	Gastrointestinal tract-esophagus, stomach, small and large intestine. Liver.Gallbladder.	As above	Room 1,3

Week 11 May 19-23	Mo	9.45-10.30	Lab	1	I,II	Retroperitoneal space, kidneys, suprarenal glans, ureters, abdominal aorta, IVC.	As above	Room 1,3
	Wed	10.00-10.45	lab	1	I,II	Rectum. Urinary bladder. Urinary tract	As above	Room 1,3

FINAL EXAMS								
	Wed June 25th	10-11.30	lab	3	whole class	Final practical exam on anatomy – 30 questions	Dr Małgorzata Mazur	Rooms 1-5
	Fri June 27th	8-10.30	Lab.	2	Whole class	Final theoretical exam -100 questions	Prof. Jerzy Walocha	online

LECTURES ONLINE ASYNCHRONOUS uploaded on MS team:

1. Introduction to anatomy- anatomical terms , position. Basic Anatomy. Descriptive Anatomical Terms : Terms Related to Position and Movement. (week 1) –1h
2. Openings in the skull- contents and communication (week 4)- 2h
4. Temporomandibular joint: function, introduction to TMJ dysfunction (week 5)- 1h
5. Head and neck development (week12) – 2h
6. Fascia of the neck, fascial spaces- suprahyoid, infrahyoid, communication and potential for infection. Ludwig’s angina, Abscesses. Cervical emphysema.(week 13)-2h
7. Lymphatic system of the head and neck.(week 14)- 2h
8. Muscles of the facial expression and mastication(week 15).- 2h