

MEDICAL UNIVERSITY OF SOFIA  
FACULTY OF MEDICINE  
DEPARTMENT OF ANATOMY, HISTOLOGY AND EMBRYOLOGY

PROGRAM

**ANATOMY AND HISTOLOGY**

for students in DENTAL MEDICINE

Subject:	Histology Mandatory
Sort of the subject:	Dental Medicine, first and second year
For students in:	240
Hours in total:	3 semesters (first to third including)
Duration:	Lectures and practical seminars
Forms of teaching:	Mid-exams and a final exam (practical and theoretical)
Student's knowledge evaluation Semester	Third
in which the final exam is held:	
Anatomy and	

DISTRIBUTION OF HOURS

SEMESTERS	LECTURES	SEMINARS
	Weekly/total	Weekly/total
First (15 weeks)		1 15
Second (15 weeks)	3 45	4 60
Third (15 weeks)	2 30	6 90

Hours in total:	7 5	16 5
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## **LECTURE PROGRAM**

FIRST SEMESTER 0 hours

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SECOND SEMESTER 45 hours

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Anatomy and histology of the:	Digestive system	16 hours
	Respiratory system	6 hours
	Urinary system	3 hours
	Reproductive system	6 hours
	Endocrine system	4 hours
	Circulatory (cardiovascular) system	8 hours
	Lymphatic system and hematopoietic organs	2 hours

THIRD SEMESTER 30 hours

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Anatomy and histology of the:	Central nervous system	12 hours
	Peripheral nervous system	4 hours
	Vegetative nervous system	2 hours
	Sense organs	5 hours
Topographic anatomy of the:	Head	5 hours
	Neck	2 hours

## **SEMINAR PROGRAM**

FIRST SEMESTER (ANATOMY) 15 hours

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Osteology (bones of the skull)	10 hours
Mid-exam on the bones of the skeleton	2 hours
Arthrology (Joints)	3 hours

SECOND SEMESTER (ANATOMY) 60 hours

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Dissection of trunk, overview of muscles, vessels and nerves of limbs	58 hours
Mid-exam on trunk	2 hours

THIRD SEMESTER (ANATOMY AND SPECIAL HISTOLOGY) 90 hours

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**ANATOMY** **60 hours**

Dissection of head	42 hours
Dissection of brain and sense organs	16 hours
Mid-exam (head, brain, sense organs)	2 hours

## LECTURE PROGRAM

<b>SPECIAL HISTOLOGY</b>	<b>30 hours</b>
Digestive system	6 hours
Respiratory system	2 hours
Urinary system	2 hours
Male reproductive system	2 hours
Female reproductive system	2 hours
Endocrine system	2 hours
Circulatory (cardiovascular) system	2 hours
Mid-exam	2 hours
Lymphatic system and hematopoietic organs	2 hours
Skin (integument) and derivatives	2 hours
Nervous system and sense organs	4 hours
Overview	2 hours

## RECOMMENDED TEXTBOOKS

1. Gray's Anatomy for medical students
2. Clinical anatomy (edited by Keith Moore)

## RECOMMENDED ANATOMICAL ATLASES

1. Atlas "Human Anatomy" (Атлас „Анатомия на човека”), edited by Sinelnikov (Синелников)
2. Atlas of human anatomy (of Frank Netter)
3. Atlas of human anatomy (of Sobotta)

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PROGRAM

**CYTOLOGY. GENERAL HISTOLOGY AND GENERAL EMBRYOLOGY**

for students in DENTAL MEDICINE

Subject:	Cytology, General Histology and General Embryology
Sort of the subject:	Mandatory
For students in:	Dental Medicine, first year 60
Hours in total:	One (the first) semester
Duration:	Lectures and practical seminars
Forms of teaching:	A mid- and a final exam (practical and theoretical)
Student's knowledge evaluation Semester	First
in which the final exam is held:	

DISTRIBUTION OF HOURS

SEMESTERS	LECTURES		SEMINARS	
	Weekly	total	Weekly	total
First (15 weeks)	2	30	2	30
Hours in total:		30		30

## LECTURE PROGRAM

CYTOLOGY	- 4 hours
Outer and inner morphology of cells Membrane-limited cell organelles	- 2 hours
Cell nucleus	- 2 hours
Non-membrane-limited organelles	- 2 hours
BASIC PROCESSES IN CELLS	- 2 hours
GENERAL HISTOLOGY Epithelial tissue Connective tissue Blood	
Muscle tissue Nerve tissue	- 2 hours

GENERAL EMBRYOLOGY	- 4 hours
	- 2 hours
	- 2 hours

## SEMINAR PROGRAM

Work with the light microscope. Preparation of permanent histological specimen slide:	- 5 hours
	- 2 hours

CYTOLOGY	
Plasma membrane and its derivatives	- 2 hours
Nucleus, nucleolus, cytocenter, cytoskeleton	- 2 hours
Mitochondria, endoplasmic reticulum, Golgi apparatus, secretory vesicles, lysosomes and peroxisomes	- 2 hours

CYTOCHEMISTRY	- 2 hours
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GENERAL HISTOLOGY:	
Epithelial tissue Connective tissue Blood	- 4 hours
Muscle tissue Nerve tissue	- 4 hours
Mid-exam: Cytology and General Histology GENERAL EMBRYOLOGY.	- 2 hours
	- 2 hours

REPRODUCTIVE CELLS	- 2 hours
	- 2 hours
	- 4 hours

### RECOMMENDED BASIC TEXTBOOKS

1. L. Carlos Junqueira, Jose Cameiro, Robert O. Kelley. Basic Histology. Middle East Edition. Seventh edition. Librairie du Liban. Appelton & Lange. 1992.
2. T. W. Sadler. Langman's Medical Embryology. Sixth edition. Williams & Wilkins: Baltimore - Hongkong - London - Sydney, 1990

### RECOMMENDED ADDITIONAL TEXTBOOKS

B. Alberts, D. Bray, J. Lewis, M. Raff, K. Roberts, J. D. Watson. Molecular Biology of the Cell. Third edition. Garland Publishing, Inc. New York & London. 1994.