ISTANBUL BILIM UNIVERSITY

ECTS Catalogue

Medical Faculty
1\textsuperscript{st} year
Aims and Objectives of the Course

Medical students in the first semester learn the basic contents of Biochemistry, biochemically important molecules. In the second semester, they make introduction to metabolism and learn most of reactions of biologically important molecules.

Course Contents

Water and biomolecules, Amino acids and peptide structure, Protein structure and function, Enzymes, Structure of Lipids, Structure of carbohydrates, Structure of nucleic acids, Bioenergetics and related compounds, Introduction to metabolism, Glycolysis, Cyclic acid cycle and mitochondrial function, ETS and oxidative phosphorylation, Pentose phosphate pathway, Metabolism of other monosaccharides, Gluconeogenesis, Glycogen metabolism, Vitamins, Lipid peroxidation and radicals, Lipid biosynthesis, Protein synthesis.

Assessment Methods

One midterm exam, quiz, laboratory exam, final exam.

Prerequisites

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Recommended Reading

Objectives and Contents

Biophysics uses physical models and tools of physical chemistry and molecular physics to define and analyze the structures ranging complexity from single molecule to cells and tissues. This field of research is leading to designs of new classes of instrumentation for use in the expanding fields of genomics, proteomics, and clinical diagnostics for a variety of biological markers. Because it is nearly impossible to understand functions of the body or practice medicine without the instruments of high technology, medical professionals should have the knowledge of basic physical principles of the instruments they use for understanding, diagnosing, and treating the patients. In biophysics courses, these physical principles underlying subjects like magnetic resonance, magnetic resonance spectroscopy, radiation biology are examined.

Assessment Methods

One midterm exam, final exam.

Prerequisites

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Recommended Reading

Aims and Objectives of the Course

To provide a clear understanding of basic concepts of Molecular Biology and Genetics. The students will be familiar with the main topics of biology, for which they will use in their further medical work and career.

Course Contents

Methods for learning the organization of the cell, DNA as a genetic material, genes, DNA replication, transcription, translation, DNA recombination, DNA mutation and repair, Cell cycle, Molecular mechanisms of cancer, Mendelian genetics, General patterns of inheritance, Cytogenetics, Chromosomal anomalies, Chromosomal disorders and Syndromes, Genetic Linkage, Molecular Biology in Medicine, Biotecnology, Human Genome Organization, Immunogenetics.

Assessment Methods

One midterm exam, laboratory exam, final exam.

Prerequisites

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Recommended Reading

- Moleküler Biyoloji, Prof. Dr. N. Yavuz Ensari, Dicle, 2002.
### Objectives and Contents

In this course, students will learn the most important topics of Microsoft Office 2003. No prior computer experience is assumed. Students will first be presented with an overview of computer concepts, followed by a quick introduction to Windows Explorer. Once students are comfortable with the basics of computing and operation systems, they will briefly cover some e-mail basics and internet browsing skills. Next, they will learn the Office 2003 programs, including four sets of tutorials that teach the basics of Word 2003, Excel 2003, and PowerPoint 2003.

### Assessment Methods

One midterm exam, final exam.

### Prerequisites

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### Recommended Reading

Objectives and Contents

The medical behavioural sciences evaluate the behaviours of human being holistically in biological, psychological, social and cultural ways with the guidance of scientific evidence. To attain this objective, psychological formations of behavioural models will be given in our course in psychoanalytical, cognitive and behavioural ways. Furthermore, the physiological basics of the constitution of behavioural models will be studied. And the social basics of the behavioural models will be handled with the concomitance of a cultural infrastructure and perceiving the individual with the system, in which the individual is living.

Assessment Methods

One midterm exam, final exam.

Prerequisites

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Recommended Reading

Aims and Objectives of the Course

To examine the foundation philosophy of the Turkish Republic
To strengthen attachment to Atatürk principles and revolutions
To examine the major changes in this period
To teach leader’s and public’s mutual roles
To examine the given period in comparison with an earlier period

Course Contents

It deals with the transition period between the Ottoman Empire and Independent Republic of Turkey (Administrative Reforms, Constitutional Monarchy, Movements in Thought, First World War, National War of Independence and Lozan Agreement) and political, social and cultural reforms realized at the end of this period.

Assessment Methods

One midterm exam, quiz and final exam.

Prerequisites

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Recommended Reading
Objectives and Contents

In fall semester, we provide the students with information about groups of language families, the situation of Turkish among the world languages, and the historical development of the Turkish written language. Afterwards we emphasize the importance of semantics, phonetics, morphology and syntax which are the branches of linguistics. In spring semester, we mainly dwell on the qualities of a correct sentence paragraph, paragraph analysis, methods to improve the way we think, written and oral composition studies and the styles of written studies.

Assessment Methods

One midterm exam, final exam.

Prerequisites

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Recommended Reading

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Objectives and Contents

The courses for the Medical Faculty are designed and programmed to develop the students' basic language skills up to a Professional level in order to enable them to: make written and oral presentations in their field, participate in international seminars and/or symposiums, follow all the literature in the field of medicine and contribute to it, communicate with foreign patients and hold consultations with their colleagues from all over the world.

The courses of Class I are programmed to: develop medical vocabulary, to develop oral and written use of complex language skills, and to advance reading comprehension, starting with simplified texts. Audio-visual material, both educational and professional, are used to develop listening skills.

Assessment Methods

One midterm exam, final exam.

Prerequisites

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Recommended Reading

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Anatomy I

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<tr>
<td>In Turkish</td>
<td>Instructor: Assist. Prof. Hülya Gürbüz, MD</td>
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</table>

**Objectives and Contents**

Osteology and Anatomy of Locomotor System is learned in this semester. Osteology define medical key terms associated with the skeletal system, identify the components of the skeletal system, and explain the gross features of bones. Anatomy of Locomotor System list the characteristics and functions of muscle tissue; identify the principal skeletal muscles in different regions of the body by name, origin, insertion, action, and innervation; describe most body movements as activities of groups of muscles by explaining the roles of the prime mover, antagonist, and synergist; describe the relationship of blood vessels and nerves to skeletal muscles; define an articulation and identify the factors that determine the degree of movement at a joint.

**Assessment Methods**

One midterm exam, laboratory exam, final exam.

**Prerequisites**

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**Recommended Reading**

- Klinik Anatomı, Prof. Dr. Mehmet Yıldırım, Nobel-Yüce, 2004.
Aims and Objectives of the Course

Medical students in the first semester learn the basic contents of Biochemistry, biochemically important molecules. In the second semester, they make introduction to metabolism and learn most of reactions of biologically important molecules.

Course Contents

Water and biomolecules, Amino acids and peptide structure, Protein structure and function, Enzymes, Structure of Lipids, Structure of carbohydrates, Structure of nucleic acids, Bioenergetics and related compounds, Introduction to metabolism, Glycolysis, Cyclic acid cycle and mitochondrial function, ETS and oxidative phosphorylation, Pentose phosphate pathway, Metabolism of other monosaccharides, Gluconeogenesis, Glycogen metabolism, Vitamins, Lipid peroxidation and radicals, Lipid biosynthesis, Protein synthesis.

Assessment Methods

One midterm exam, quiz, laboratory exam, final exam.

Prerequisites

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Recommended Reading

Aims and Objectives of the Course

General histology lectures include the structures and functions of four classic tissues: epithelium, connective tissue, muscle tissue and nervous system. The students will learn microscopic structure of tissue types and their organizations in the body.

Course Contents

Epithelial tissue; classification, epithelial glands. Connective tissue; Resident cell types, extracellular components, connective tissue types, specialized connective tissues such as adipose tissue, cartilage, bone and blood. Muscle tissue: Three types of muscle; skeletal, smooth and cardiac muscle. Nervous tissue: Neurons, glial cells, central and peripheral nervous system.

Assessment Methods

One midterm exam, homework, quiz, laboratory exam, final exam.

Prerequisites

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Recommended Reading

- Temel Histoloji, Prof. Dr. Yener Aytekin, Doç. Dr. Seyhun Solakoğlu, Nobel Tıp Kitabevi, İstanbul, 2005.
- Histoloji Atlası-Sobotta, Prof. Dr. Türkan Erbengi, Prof. Dr. Meral Tekelioglu, Doç. Dr. Cengiz Güven, Nobel Tıp Kitabevi, İstanbul,1999.
Aims and Objectives of the Course

To provide a clear understanding of basic concepts of Molecular Biology and Genetics. The students will be familiar with the main topics of biology, for which they will use in their further medical work and career.

Course Contents

Methods for learning the organization of the cell, DNA as a genetic material, genes, DNA replication, transcription, translation, DNA recombination, DNA mutation and repair, Cell cycle, Molecular mechanisms of cancer, Mendelian genetics, General patterns of inheritance, Cytogenetics, Chromosomal anomalies, Chromosomal disorders and Syndromes, Genetic Linkage, Molecular Biology in Medicine, Biotecnology, Human Genome Organization, Immunogenetics.

Assessment Methods

One midterm exam, laboratory exam, final exam.

Prerequisites

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Recommended Reading

- Moleküler Biyoloji, Prof. Dr. N. Yavuz Ensari, Dicle, 2002.
**Objectives and Contents**

Physiology is the scientific discipline that deals with the processes or functions of living things like, remembering, contraction of heart muscle, or movement. The main goals of physiology are to understand and predict the body’s responses to stimuli, and to understand how body maintains conditions within a narrow range of values in the presence of a continually changing environment.

This semester, the internal environment, mechanisms of control, and homeostasis are introduced. Transport through membranes, intracellular communication, generation of membrane potential, and action potentials and mechanisms of muscle contraction are also the subject matter physiology. Last topic is going to be related to blood, including transport of gases, hemostasis and immunity.

**Assessment Methods**

One midterm exam, laboratory exam, final exam.

**Prerequisites**

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**Recommended Reading**

- Tibbi Fizyoloji, Prof.Dr. Hayrubâna Çavuşoğlu, Prof.Dr. Berrak Çağlayan Yeğen, Prof.Dr. Zeynep Aydın, Nobel Tıp Kitabevi, İstanbul, 2007.
Aims and Objectives of the Course

To examine the foundation philosophy of the Turkish Republic
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Assessment Methods

One midterm exam, quiz and final exam.

Prerequisites

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Recommended Reading

--
Objectives and Contents

In fall semester, we provide the students with information about groups of language families, the situation of Turkish among the world languages, and the historical development of the Turkish written language. Afterwards we emphasize the importance of semantics, phonetics, morphology and syntax which are the branches of linguistics. In spring semester, we mainly dwell on the qualities of a correct sentence paragraph, paragraph analysis, methods to improve the way we think, written and oral composition studies and the styles of written studies.

Assessment Methods

One midterm exam, final exam.

Prerequisites

--

Recommended Reading

--
Objectives and Contents

The courses for the Medical Faculty are designed and programmed to develop the students basic language skills up to a Professional level in order to enable them to; make written and oral presentations in their field, participate in international seminars and/or symposiums, follow all the literature in the field of medicine and contribute to it, communicate with foreign patients and hold consultations with their, colleagues from all over the world.

The courses of Class I are programmed to; develop medical vocabulary, to develop oral and written use of complex language skills, and to advance reading comprehension, starting with simplified texts. Audio-visual material, both educational and professional, are used to develop listening skills.

Assessment Methods

One midterm exam, final exam.

Prerequisites

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Recommended Reading

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Aims and Objectives of the Course

The main aim of this course is to help students acquire knowledge and skills in basic concepts of a first aid, primary and secondary prevention of accidents, hurts and emergencies, first quick subjective and objective assessment, triage, first aid principles in various cases (bleeding, cardiopulmonar, arrest, burns, acute traumas of head, vertebral column and abdomen, coma, shock etc.)

Course Contents

Introduction of first aid (history, aims and main principles of first aid), Assessment and Rescue of Injured Person, Transfer and Triage of Injured Person, Breathing and airway obstruction, Cardiopulmonary ressusitation, First aid in bleeding, First Aid in Shock, First Aid in Comas, Splinting fractures, First Aid in Poisoning and Insect Bites, First aid in various situations (burns, freezing, traumas etc)

Assessment Methods

One midterm exam, final exam.

Prerequisites

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Recommended Reading

- Handouts supplied by the Department.
2\textsuperscript{nd} year
Aims and Objectives of the Course

The aim of this course is to teach the students the anatomy of the organs and systems of the human body.

Course Contents

Respiratory system general information; Trachea and bronchi; Lungs; Pleura and mediastinum; The outer face of the heart and its neighbours; The inner face of the heart; Structure, skeleton and valve system of the heart; Gastrointestinal system; Pericardium, truncus pulmonalis; Cavum oris; Aorta, A.c. communis, A.c. ext. and their branches; Pharynx; Branches of A. maxillaris-….A. subclavia; Intestinum Tenue; Intestinum Crassum; A.abdominalis; Rectum, canalis analis; A.iliaca interna, A.iliaca externa, lower side arteries; Liver, biliary tract; Pancreas, parotid gland, spleen.

Assessment Methods

One midterm exam, laboratory exam, final exam.

Prerequisites

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Recommended Reading

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<th>Clinical Biochemistry I</th>
<th>Code: MD203</th>
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Instructor: Assist. Prof. Uzay Görmüş, MD

**Aims and Objectives of the Course**

Medical students in the first semester learn biochemical metabolism of human body. Together they learn the biochemical mechanism of related pathologies under each subject. Medical student in the second semester learn major clinical biochemistry subjects. Hematology, enzymes, metals and trace element, hormones and other clinically important subjects. Together they learn the biochemical mechanism of related pathologies under each subject.

**Course Contents**

Glycolysis, Citric acid cycle, ETS and oxidative phosphorylation, Pentose phosphate pathway, Gluconeogenesis, Glycogen metabolism, Metabolism of other monosaccharides, Lipid metabolism, Lipoprotein metabolism, Digestion metabolism, Amino acid metabolism, Nucleotid metabolism, Biochemistry of anemia, Coagulation and fibrinolysis, Porphyria and bile pigments, Vascular system biochemistry, Biogenic amines, Growth factors, Steroid hormones, Mineral and bone metabolism, Connective tissue biochemistry, Biochemical diagnosis of disease, Biochemistry of pregnancy, Signal transduction, Tumor biochemistry.

**Assessment Methods**

One midterm exam, quiz, laboratory exam, final exam.

**Prerequisites**

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**Recommended Reading**

Special Histology

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<td>Instructor: Assoc. Prof. Meral Koyutürk, MD</td>
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**Aims and Objectives of the Course**

Special histology lectures include the structures and functions of several organ systems in preparation for studying pathology and clinical medicine.

**Course Contents**

Circulatory system; blood vascular system; lymph vascular system and heart. Respiratory system; Conducting and respiratory part. Gastrointestinal system; Oral cavity, tubular digestive tract, digestive glands. Urogenital system; Male and female genital tracts, urinary system. Immune system; lymphoid organs. Endocrine system; Endocrine glands and responsive tissues. Integument, eye and ear.

**Assessment Methods**

One midterm exam, homework, quiz, laboratory exam, final exam.

**Prerequisites**

Structure and function of tissue types.

**Recommended Reading**

- Abraham L. Kierszenbaum, Histology and Cell Biology (2002), Missouri, USA
Physiology I

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<td>Instructor: Assist. Prof. Numan Ermutlu, MD</td>
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Objectives and Contents

In fall semester, we shall focus on heart, circulation, respiratory system, urinary system and fluid and acid-base balance. In spring semester, physiology starts with sensory, nervous and endocrine systems. In the general sense, it is related to control and coordination of body functions. Lastly we shall see gastrointestinal system physiology.

Assessment Methods

One midterm exam, laboratory exam, final exam.

Prerequisites

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Recommended Reading

- Tibbi Fizyoloji, Prof.Dr. Hayrünisa Çavuşoğlu, Prof.Dr. Berrak Çağlayan Yeğen, Prof.Dr. Zeynep Aydın, Nobel Tıp Kitabevi, İstanbul, 2007.
Objectives and Contents

In fall semester, the properties and functions of Tand B lymphocytes and other cells of immune system; the structure of antigen and antibody, classification of immunoglobulines, complement system, antigen presentation to T cells are studied.

The subjects that will be discussed in spring semester are inflammation, hypersensitivity reactions, autoimmunity, immunodeficiency, antiviral-antibacterial immunity and antitumoral immunity.

Assessment Methods

One midterm exam, final exam.

Prerequisites

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Recommended Reading

**Biostatistics I**

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**Instructor:**

**Objectives and Contents**

The aim of this course is to provide students with a first expose to the powerful ideas of modern statistics. The core material of this lesson is common to almost all first courses in statistics and is designed to be covered well within a one-semester course in introductory statistics for medical students. The course presents the key statistical concepts and the most commonly applied methods of statistical analysis. In this course, students use the computer and work with larger data sets where patterns are more pronounced and make complicated calculations. In this course, students complete all performance requirements, research recommended texts and give the completed course-works to instructor.

**Assessment Methods**

One midterm exam, final exam.

**Prerequisites**

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**Recommended Reading**

**Medical English III**

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**Objectives and Contents**

The courses for the Medical Faculty are designed and programmed to develop the students basic language skills up to a Professional level in order to enable them to; make written and oral presentations in their field, participate in international seminars and/or symposiums, follow all the literature in the field of medicine and contribute to it, communicate with foreign patients and hold consultations with their, colleagues from all over the world.

The courses of Class I are programmed to; develop medical vocabulary, to develop oral and written use of complex language skills, and to advance reading comprehension, starting with simplified texts. Audio-visual material, both educational and professional, are used to develop listening skills.

**Assessment Methods**

One midterm exam, final exam.

**Prerequisites**

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**Recommended Reading**

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Aims and Objectives of the Course

The aim of this course is to teach the students the anatomy of the organs and systems of the human body.

Course Contents

Head- neck venae, upper side venae; Lower side venae, portal venae system; Lymphatic system-I & II; Genitourinary system, kidneys and their neighbors; Neighbors and internal structure of kidneys; Arteries, venae, nerves and lymph of kidney, their abnormalities; Calices and pelvis renalis; Vesica urinaria, its neighbors, veins and nerves; Urethra (female- male); Penis and its shelters, veins and nerves; Scrotum, prostate, Gl. Bulbourethralis, female genital organs; Tuba uterine, uterus; Female outer genital organs and specific glands; Radiological anatomy; Larynx; Circulatory system general information; Arterial and venous circulation of the heart, its innervations; Esophagus, stomach; Axillaris and branchialis, Aorta Thoracica; Male genital organs, testis, sperm lines.

Assessment Methods

One midterm exam, laboratory exam, final exam.

Prerequisites

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Recommended Reading

Clinical Biochemistry II

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<th>Code: MD204</th>
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</table>

Instructor: Assist. Prof. Uzay Görmüş, MD

Aims and Objectives of the Course

Medical students in the first semester learn biochemical metabolism of human body. Together they learn the biochemical mechanism of related pathologies under each subject. Medical student in the second semester learn major clinical biochemistry subjects. Hematology, enzymes, metals and trace element, hormones and other clinically important subjects. Together they learn the biochemical mechanism of related pathologies under each subject.

Course Contents

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Assessment Methods

One midterm exam, quiz, laboratory exam, final exam.

Prerequisites

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Recommended Reading

Aims and Objectives of the Course

Embryology lectures include the period of development from fertilization to birth. Fundamental form and organization of body and maturation of different organs.

Course Contents

Embryonic period; from fertilization to organogenesis. Fetal period; maturation of organs in both structure and function.

Assessment Methods

One midterm exam, homework, quiz, and final exam.

Prerequisites

Basic concepts of tissues and organs.

Recommended Reading

- TW Sadler: Langman’s Medical Embryology (1997), 7th ed, Maryland, USA.
Objectives and Contents

In fall semester, we shall focus on heart, circulation, respiratory system, urinary system and fluid and acid-base balance. In spring semester, physiology starts with sensory, nervous and endocrine systems. In the general sense, it is related to control and coordination of body functions. Lastly we shall see gastrointestinal system physiology.

Assessment Methods

One midterm exam, laboratory exam, final exam.

Prerequisites

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Recommended Reading

- Tibbi Fizyoloji, Prof.Dr. Hayrünisa Çavuşoğlu, Prof.Dr. Berrak Çağlayan Yeğen, Prof.Dr. Zeynep Aydın, Nobel Tıp Kitabevi, İstanbul, 2007.
### Objectives and Contents

In fall semester, the properties and functions of T and B lymphocytes and other cells of immune system; the structure of antigen and antibody, classification of immunoglobulines, complement system, antigen presentation to T cells are studied.

The subjects that will be discussed in spring semester are inflammation, hypersensitivity reactions, autoimmunity, immunodeficiency, antiviral-antibacterial immunity and antitumoral immunity.

### Assessment Methods

One midterm exam, final exam.

### Prerequisites

--

### Recommended Reading

Objectives and Contents

The aim of this course is to provide students with a first expose to the powerful ideas of modern statistics. The core material of this lesson is common to almost all first courses in statistics and is designed to be covered well within a one-semester course in introductory statistics for medical students. The course presents the key statistical concepts and the most commonly applied methods of statistical analysis. In this course, students use the computer and work with larger data sets where patterns are more pronounced and make complicated calculations. In this course, students complete all performance requirements, research recommended texts and give the completed course-works to instructor.

Assessment Methods

One midterm exam, final exam.

Prerequisites

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Recommended Reading

### Aims and Objectives of the Course

To form the basis of clinical microbiology lessons of third year. In order to do that; to classify and teach the basic properties of microorganisms and to give the concepts of antibacterial agents, sterilization-disinfection-antisepsis, and active-passive immunization.

### Course Contents

Bacterial classification, structure, replication and pathogenesis; normal body flora; antibacterial agents; viral classification, structure, replication, and pathogenesis; fungal classification, structure, replication, and pathogenesis; sterilization-disinfection-antisepsis; active and passive immunizations; parasitic classification, structure, replication, and pathogenesis.

### Assessment Methods

One midterm exam, laboratory exam, final exam.

### Prerequisites

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### Recommended Reading

Objectives and Contents

The courses for the Medical Faculty are designed and programmed to develop the students basic language skills up to a Professional level in order to enable them to; make written and oral presentations in their field, participate in international seminars and/or symposiums, follow all the literature in the field of medicine and contribute to it, communicate with foreign patients and hold consultations with their, colleagues from all over the world.

The courses of Class I are programmed to; develop medical vocabulary, to develop oral and written use of complex language skills, and to advance reading comprehension, starting with simplified texts. Audio-visual material, both educational and professional, are used to develop listening skills.

Assessment Methods

One midterm exam, final exam.

Prerequisites

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Recommended Reading

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3\textsuperscript{rd} year
Introduction to Internal Medicine I

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<td>8 ECTS credits</td>
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Director: Prof. M. Canan Efendigil Karatay MD
Instructors: Prof. Gökhan Demir MD, Prof. Levent Erdem MD, Prof. Coşkun Tecimer MD, Prof. Emine Sönmez MD, Assoc. Prof. Çavlan Çiftçi MD, Assoc. Prof. Ferah Ece MD, Assist. Prof. Cihan Duran MD, Assist. Prof. Aslı Kıyat Ataamer MD, D. Rahmanoğlu MD, K. Aslan MD, K. Okutur MD, S. Azizlerli MD.

Aims and Objectives of the Course

This course will provide opportunity in necessary skills for acquiring a complete patient history and performing a through physical examination.

Course Contents

Emphasis is placed on communicating patient findings, both in written and oral presentations. Students will participate in patient care, evaluation and decision making procedures under the supervision of the attending physician and the staff. Lectures are oriented towards presenting the clinical findings associated with diseases, and are kept to a maximum of ten hours a week. Daily rounds, and evaluation of the results of the various investigations regarding the patient care will provide both didactic and informal learning experiences.

Assessment Methods

Students are evaluated by observed history-taking and physical examination, mid-term and final examinations.

Prerequisites

Year I, II and III standing.

Recommended Reading

**Introduction to Pediatrics**

- **Code:** MD303  
- **ECTS credits:** 3  
- **Year and Semester:** 3rd 1st semester  
- **Undergraduate:** Required  
- **h/week:** 5  
- **Lectures:** 3  
- **Practice:** 2  
- **In Turkish:**  
- **Instructors:** Prof. Lebriz Yüksel Soycan MD, Prof. Yonca Nuhoğlu MD, B. Göksan MD, M Tanakol MD, Ü. B. Samanlı MD

### Aims and Objectives of the Course

The student will become familiar with the general evaluation and management of pediatric patients.

### Course Contents

This clinical clerkship will also provide the student an intensive approach to nutritional problems and to general topics in pediatric nutrition. Daily rounds, and teaching conferences will provide both didactic and informal learning experiences. The students will be directly involved with the patient care and gain experience in neonatal pediatric problems.

### Assessment Methods

Students are evaluated by their observed history taking, physical examination, mid-term and final examination.

### Prerequisites

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### Recommended Reading

Aims and Objectives of the Course

To form the basis of “Infectious diseases” lessons by teaching clinically important bacteria under the titles of physiology and structure; pathogenesis and immunity; epidemiology; clinical syndroms; laboratory diagnosis; treatment, prevention and control.

Course Contents

Staphylococcus; Streptococcus; Enterococcus; Neisseria; Bacillus; Corynebacterium; Listeria; Erysipelothrix; Gardnerella; Enterobacteriaceae; Vibrio; Campylobacter; Helicobacter; Pseudomonas; Brucella; Legionella; Bartonella; Bordetella; Francisella; Clostridium and other anaerobic bacteria; Mycoplasma and Ureaplasma; Mycobacterium; Nocardia and Rhodococcus; Treponema; Borrelia, Coxiella; Rickettsia, Ehrlichia, Coxiella; Chlamydia.

Assessment Methods

One midterm exam, laboratory exam, final exam.

Prerequisites

Basic Microbiology

Recommended Reading

Pathology I

| Code: MD311 |
|---|---|
| 4 ECTS credits | 3rd year 1st semester |
| Undergraduate | Required |
| h/week: 4 | Lectures: 3 Practice: 1 |
| In Turkish | In Turkish |
| Instructors: Prof. Vildan Karpuz MD |

**Aims and Objectives of the Course**

To provide a solid understanding of structural and functional abnormalities that are expressed as disease of organs and systems.

**Course Contents**

General Pathology: Cell injury; Inflammation and Repair; Immunopathology; Neoplasia; Developmental and Genetic Disease; Hemodynamic Disorders; Environmental and Nutritional Pathology; Infectious and Parasitic Disease. Special Pathology: The Heart; Blood Vessels; The Respiratory System; The Gastrointestinal Tract; The Pancreas; The Kidney; The Urinary Tract; The Male Reproductive System; The Female Reproductive System and the Breast; The Blood and the Lymphoid Organs; Endocrine System; The Skin; Bones and Joints; Skeletal Muscle; The Nervous System.

**Assessment Methods**

Two midterm exam, final exam, homeworks.

**Prerequisites**

MD102, MD106, MD201, MD202, MD205, MD206.

**Recommended Reading**

- Genel Patoloji Cilt: 1, 2, Prof. Dr. Münevver Yenerman, Nobel Tip Kitabevi, İstanbul, 1994.
Aims and Objectives of the Course

This course provides an introduction to pharmacology, emphasizing basic mechanisms of drug action and principles of drug-receptor interactions, pharmacokinetics, pharmacodynamics and drug metabolism.

Course Contents

Relationships between basic mechanisms and clinical use of therapeutic agents are analyzed in the context of specific organ system involvement such as autonomic nervous system, cardiovascular, respiratory, hematologic, endocrine and central nervous systems, autacoids and chemotherapeutic drugs are also considered.

Assessment Methods

Midterm and final examinations, and classroom participation.

Prerequisites

Year I and II standing.

Recommended Reading

- Özet Farmakoloji, Prof. Dr. Esen A. Özalp Dural, Nobel Tıp Kitabevi, İstanbul, 2006.
Objectives and Contents

The purpose of this course is to discuss the development of the medical profession, training, and the sociology of medical knowledge. Cultural practices and their influence on health and diseases and public health are emphasized.

Assessment Methods

Students are evaluated by a mid-term and final examination.

Prerequisites

Year I and II standing.

Recommended Reading

Objectives and Contents

The courses for the Medical Faculty are designed and programmed to develop the students' basic language skills up to a Professional level in order to enable them to: make written and oral presentations in their field, participate in international seminars and/or symposiums, follow all the literature in the field of medicine and contribute to it, communicate with foreign patients and hold consultations with their colleagues from all over the world.

The courses of Class I are programmed to: develop medical vocabulary, to develop oral and written use of complex language skills, and to advance reading comprehension, starting with simplified texts. Audio-visual material, both educational and professional, are used to develop listening skills.

Assessment Methods

One midterm exam, final exam.

Prerequisites

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Recommended Reading

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Aims and Objectives of the Course

This course teaches the necessary skills for acquiring a complete patient history and performing a thorough physical examination.

Course Contents

Emphasis is placed on communicating patient findings, both in written and oral presentations. Lectures are oriented towards presenting the clinical findings associated with diseases. Much of this course is at the bedside by assigned preceptors for the entire semester. (two hours a week)

Assessment Methods

Students are evaluated by observed history-taking and physical examination, mid-term and final examinations.

Prerequisites

Year I and II standing.

Recommended Reading

- Surgery: Scientific Principles and Practice, 2nd ed., J.B. Lippincott Co, USA.
- ACS Surgery Principles and Practice, WebMD Corporation, USA.
Aims and Objectives of the Course

This course offers clinical practice regarding women’s health issues, midwifery program, maternal-fetal medicine, infertility and IVF, and gynecology.

Course Contents

Students are encouraged to history taking, communication and physical examination and observation of the patients through their labor, delivery and post-partum care. Daily rounds, and teaching conferences will provide both didactic and informal learning experiences.

Assessment Methods

Students are evaluated by their clinical performance, physical examination, and final examination.

Prerequisites

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Recommended Reading

- Jinekoloji, Prof. Dr. Sinan Berkman, İstanbul Tıp Fakültesi Temel ve Klinik Bilimler Ders Kitapları 2004, İstanbul.
- Doğum Bilgileri, Prof. Dr. Sinan Berkman, İstanbul Tıp Fakültesi Temel ve Klinik Bilimler Ders Kitapları 2003, İstanbul.
Aims and Objectives of the Course

To describe all important pathogenic viruses, fungi and parasites for human and the diseases they cause. The pathogen will be classified and described. The epidemiology will be discussed, clinical manifestations will be listed, and specific information on laboratory diagnosis, treatment and prevention will be presented.

Course Contents

Papovaviruses; Adenoviruses; Herpesviruses; Poxviruses; Parvoviruses; Picornaviruses; Paramyxoviruses; Orthomyxoviruses; Reoviruses; Rhabdoviruses; Togaviruses; Flaviviruses; Bunyaviridae; Retroviruses; Hepatitis viruses; Prions; Mycoses; Intestinal and urogenital protozoa; Blood and tissue protozoa, Nematodes; Trematodes; Cestodes; Antiparasitic agents; Laboratory: Serological tests; Diagnosis of fungal infections; Diagnosis of viral infections.

Assessment Methods

Homeworks, midterm exam, laboratory exam, final exam.

Prerequisites

Basic Microbiology

Recommended Reading

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**Aims and Objectives of the Course**

To provide a solid understanding of structural and functional abnormalities that are expressed as disease of organs and systems.

**Course Contents**

General Pathology: Cell injury; Inflammation and Repair; Immunopathology; Neoplasia; Developmental and Genetic Disease; Hemodynamic Disorders; Environmental and Nutritional Pathology; Infectious and Parasitic Disease. Special Pathology: The Heart; Blood Vessels; The Respiratory System; The Gastrointestinal Tract; The Pancreas; The Kidney; The Urinary Tract; The Male Reproductive System; The Female Reproductive System and the Breast; The Blood and the Lymphoid Organs; Endocrine System; The Skin; Bones and Joints; Skeletal Muscle; The Nervous System.

**Assessment Methods**

Two midterm exam, final exam, homeworks.

**Prerequisites**

MD102, MD106, MD201, MD202, MD205, MD206.

**Recommended Reading**

- Genel Patoloji Cilt: 1, 2, Prof. Dr. Münevver Yenerman, Nobel Tıp Kitabevi, İstanbul, 1994.
Aims and Objectives of the Course

This course provides an introduction to pharmacology, emphasizing basic mechanisms of drug action and principles of drug-receptor interactions, pharmacokinetics, pharmacodynamics and drug metabolism.

Course Contents

Relationships between basic mechanisms and clinical use of therapeutic agents are analyzed in the context of specific organ system involvement such as autonomic nervous system, cardiovascular, respiratory, hematologic, endocrine and central nervous systems, autacoids and chemotherapeutic drugs are also considered.

Assessment Methods

Midterm and final examinations, and classroom participation.

Prerequisites

Year I and II standing.

Recommended Reading

- Farmakoloji, Prof. Dr. Esen A. Özalp Dural, Nobel Tıp Kitabevi, İstanbul, 2008.
- Özet Farmakoloji, Prof. Dr. Esen A. Özalp Dural, Nobel Tıp Kitabevi, İstanbul, 2006.
Aims and Objectives of the Course

The aim of this course is to teach the students deontological aspects.

Course Contents

Importance of Deontology, Deontological aspect of doctor’s oath, Doctor’s duty, obligation, deontological aspects of diagnosis and treatment, International declarations on medical deontology regulations, Deontological aspects abortion, birth control and population planning.

Assessment Methods

Midterm ad final examinations.

Prerequisites

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Recommended Reading

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Instructor: IM Perry, L Perry

**Objectives and Contents**

The courses for the Medical Faculty are designed and programmed to develop the students' basic language skills up to a Professional level in order to enable them to; make written and oral presentations in their field, participate in international seminars and/or symposiums, follow all the literature in the field of medicine and contribute to it, communicate with foreign patients and hold consultations with their colleagues from all over the world.

The courses of Class I are programmed to; develop medical vocabulary, to develop oral and written use of complex language skills, and to advance reading comprehension, starting with simplified texts. Audio-visual material, both educational and professional, are used to develop listening skills.

**Assessment Methods**

One midterm exam, final exam.

**Prerequisites**

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**Recommended Reading**

--
4th year
## Aims and Objectives of the Course

This course will provide opportunity in necessary skills for acquiring a complete patient history and performing a thorough physical examination.

## Course Contents

Emphasis is placed on communicating patient findings, both in written and oral presentations. Students will participate in patient care, evaluation and decision making procedures under the supervision of the attending physician and the staff. Lectures are oriented towards presenting the clinical findings associated with diseases, and are kept to a maximum of ten hours a week. Daily rounds, and evaluation of the results of the various investigations regarding the patient care will provide both didactic and informal learning experiences.

## Assessment Methods

Students are evaluated by observed history-taking and physical examination, mid-term and final examinations.

## Prerequisites

Year I, II and III standing.

## Recommended Reading

Aims and Objectives of the Course

To bring together detailed and practical information on all aspects of infectious diseases. Common conditions will be described in detail. The basic principles necessary for a clear understanding of concepts of diagnosis and management of infectious diseases, major clinical syndroms, differential diagnosis, preventive options and therapy will be discussed.

Course Contents

Introduction to infectious diseases; fever of unknown origin; Basic principles in the diagnosis and management of infectious diseases; Infectious diseases with generalized rash; Staphylococcal and streptococcal infections; Anthrax; Gas gangrene and other myonecrosis; sepsis and septic shocoh syndrome; Brucellosis, Typhoid and paratyphid fever; Malaria; Infectious mononucleosis; Toxoplasmosis; Leptospirosis; Kala-azar; food poisoning and acute gastroenteritis; Cholera; Dysenteries; Hepatitis; Meningitis; Tetanus, Rabies; Mumps; Botulismus; Nosocomial infections; ebile neutropenic fever; Infective endocarditus; AIDS; Anti-infective therapy; Clinical Practice.

Assessment Methods

Homeworks, clinical practice (patient’s history, physical examination, bedside discussion), verbal and final examination.

Prerequisites

Basic Microbiology, Clinical Microbiology.

Recommended Reading

- İnfeksiyon Hastalıkları ve Mikrobiyolojisi 2 cilt 3.basım, Güner Söyletir, Ayşe Willke Topçu, Mehmet Doğanay, ... Nobel Tıp Kitabevi, İstanbul, 2008.
Aims and Objectives of the Course

This course will provide opportunity in clinical history-taking and physical examination of the cardiac patient in order to give students a broad clinical exposure to cardiology and particularly to sharpen the basic skills necessary in all aspects of clinical cardiology.

Course Contents

The resulting information will be correlated with electrocardiographic, echocardiographic, radiologic, hemodynamic and angiographic data. Students will participate in patient care under the direction of the attending staff, and cardiology fellows. Electrocardiography will be taught by reading sessions presenting the clinical findings associated with diseases. Daily rounds, and teaching conferences will provide both didactic and informal learning experiences.

Assessment Methods

Students are evaluated by their clinical performance, physical examination, and final examination.

Prerequisites

Year I and II standing.

Recommended Reading

Aims and Objectives of the Course

The objective is to encourage students to define and investigate therapeutic issues and to learn efficient techniques for answering specific questions from the medical literature and in the clinical practice.

Course Contents

This course is primarily concerned with clinical therapeutics and therapeutic decision making in areas of cardiology, infectious diseases, cancer chemotherapy, neurology, psychiatry, toxicology, drug interactions and emergency medicine. Supplemented by more didactic lectures, emphasis is placed on clinical case discussions and on pharmacological evaluation of drugs currently used in the clinical and clinical trials.

Assessment Methods

Midterm and final examinations, homework presentations, classroom performance and attendance.

Prerequisites

Year I, II and III standing.

Recommended Reading

**Aims and Objectives of the Course**

This course will explore current public health policy issues in Turkey, women’s and children’s health, providing students with the skills necessary to analyze public health issues from a policy perspective.

**Course Contents**

Current policy issues will be identified and analyzed for a wide variety of public health issues. In addition, the course will provide an overview of gender differences in morbidity and mortality across the life course, theories of explanations for these differences, and issues related to gender and biomedical research will be emphasized. Local public health centers, women and children stations will be visited by the students.

**Assessment Methods**

Evaluation will be by mid-term and final examination.

**Prerequisites**

Year I, II and III standing.

**Recommended Reading**

### Aims and Objectives of the Course

The student will become familiar with the evaluation and management of patients with acute and chronic respiratory diseases.

### Course Contents

Students will participate in patient care under the direction of the attending staff. The use of diagnostic aids to establish locus, type and magnitude of pathological processes will be examined. Pulmonary function tests and chest X-rays will be taught by reading sessions presenting the clinical findings associated with diseases. Daily rounds, and teaching conferences will provide both didactic and informal learning experiences.

### Assessment Methods

Students are evaluated by their clinical performance, physical examination, and final examination.

### Prerequisites

Year I, II and III standing.

### Recommended Reading

Aims and Objectives of the Course

The student will become familiar with the general evaluation and management of pediatric patients.

Course Contents

This clinical clerkship will also provide the student an intensive approach to nutritional problems and to general topics in pediatric nutrition. Daily rounds, and teaching conferences will provide both didactic and informal learning experiences. The students will be directly involved with the patient care and gain experience in neonatal pediatric problems.

Assessment Methods

Students are evaluated by their observed history taking, physical examination, mid-term and final examination.

Prerequisites

Year I, II and III standing.

Recommended Reading

- Pediatri Cilt-1 3. Baskı Cıltli, Prof. Dr. Talat Cantez, Prof. Dr. Rukiye Eker Ömeroğlu, Prof. Dr. Serpil Uğur Baysal, Nobel Tıp Kitabevi, İstanbul, 2002.
- Pediatri Cilt-2 3. Baskı Cıltli, Prof. Dr. Talat Cantez, Prof. Dr. Rukiye Eker Ömeroğlu, Prof. Dr. Serpil Uğur Baysal, Nobel Tıp Kitabevi, İstanbul, 2002.
**Aims and Objectives of the Course**

This course offers clinical practice regarding women’s health issues, midwifery program, maternal-fetal medicine, infertility and IVF, and gynecology.

**Course Contents**

Students are encouraged to history taking, communication and physical examination and observation of the patients through their labor, delivery and post-partum care. Daily rounds, and teaching conferences will provide both didactic and informal learning experiences.

**Assessment Methods**

Students are evaluated by their clinical performance, physical examination, and final examination.

**Prerequisites**

--

**Recommended Reading**

- Jinekoloji, Prof. Dr. Sinan Berkman, İstanbul Tıp Fakültesi Temel ve Klinik Bilimler Ders Kitapları 2004, İstanbul.
- Doğum Bilgileri, Prof. Dr. Sinan Berkman, İstanbul Tıp Fakültesi Temel ve Klinik Bilimler Ders Kitapları 2003, İstanbul.
**Aims and Objectives of the Course**

This course will give an in-depth experience in clinical management of patients with surgical problems.

**Course Contents**

Operating room experience includes exposure to a broad range of general surgery, including minimally invasive procedures. It will provide student an opportunity to evaluate, decide on diagnostic and management strategy and patient care under housestaff and faculty guidance. Daily grounds, and teaching conferences will provide both didactic and informal learning experiences.

**Assessment Methods**

Students are evaluated by their clinical performance, physical examination, and final examination.

**Prerequisites**

Year I, II and III standing.

**Recommended Reading**

- Genel Cerrahi I, II. Editör: Prof Dr Göksel Kalaycı, Nobel Tıp Kitabevleri, 2002.
- Cerrahi Hastalarda Tanı ve Fizik Muayene, Prof. Dr. Süha Aydın, İstanbul Tıp Kitabevi, 2008.
Aims and Objectives of the Course

The objective is to encourage students to define and investigate therapeutic issues and to learn efficient techniques for answering specific questions from the medical literature and in the clinical practice.

Course Contents

This course is primarily concerned with clinical therapeutics and therapeutic decision making in areas of cardiology, infectious diseases, cancer chemotherapy, neurology, psychiatry, toxicology, drug interactions and emergency medicine. Supplemented by more didactic lectures, emphasis is placed on clinical case discussions and on pharmacological evaluation of drugs currently used in the clinic and clinical trials.

Assessment Methods

Midterm and final examinations, homework presentations, classroom performance and attendance.

Prerequisites

Year I, II and III standing.

Recommended Reading

- Tibbi Farmakoloji, Prof. Dr. S. Oğuz Kayaalp, Hacettepe Taş, 2005.
- İlaç İndeksi 2006 - İlaç İndeksi, Prof. Dr. Kasım Cemal Güven, Prof.Dr. Zeliha Yazıcı, Nobel Tıp Kitabevi, İstanbul, 2006.
Aims and Objectives of the Course

This course will explore current public health policy issues in Turkey, women’s and children’s health, providing students with the skills necessary to analyze public health issues from a policy perspective.

Course Contents

Current policy issues will be identified and analyzed for a wide variety of public health issues. In addition, the course will provide an overview of gender differences in morbidity and mortality across the life course, theories of explanations for these differences, and issues related to gender and biomedical research will be emphasized. Local public health centers, women and children stations will be visited by the students.

Assessment Methods

Evaluation will be by mid-term and final examination.

Prerequisites

Year I, II and III standing.

Recommended Reading

5th year
Aims and Objectives of the Course

This course is designed to provide students with a basic knowledge of radiologic interpretation of plain films, CT scans, ultraspound and MRI.

Course Contents

The student spend time in the fluoroscopic and angiographic suites, to gain familiarity with radiologic procedures. The students will attend daily radiology teaching conferences and are encouraged to attend film interpretation sessions with the staff.

Assessment Methods

Students are evaluated by their interaction in teaching sessions and a final examination.

Prerequisites

Year I, II, III and IV standing.

Recommended Reading

- Klinik Tanıda Görüntüleme Stratejisi, Prof.Dr. Ertuğrul Eğilmez, Pelikan, 2006.
- Temel Radyoloji, Prof.Dr. Atadan Tunacı, Dr. Betül Tiryaki, Nobel Tıp Kitabevi, İstanbul, 2007.
Aims and Objectives of the Course

This course is designed to provide students with exposure to wide-ranging aspects of radiation oncology.

Course Contents

There will be opportunities to see patients with a variety of neoplastic diseases. Students will participate in the clinical assessment and management decision making process, with emphasis on a multi-disciplinary approach. The students will also be involved in the planning and execution of radiation therapy, and post-treatment follow-up visits. Students will attend scheduled staff lectures on clinical radiology oncology, and radiation physics and biology.

Assessment Methods

Students are evaluated by their interaction in teaching sessions and a final examination.

Prerequisites

Year I, II, III and IV standing.

Recommended Reading

- Textbook of Clinical Oncology, American Cancer Society, Holleb AI, Fink DJ, Murphy GP, USA, 1991.
Objectives and Contents

This course is designed to teach fundamentals of nuclear physics, biology and diagnostic procedures. The aim will be to acquaint students with the wide range of activities in clinical nuclear medicine. Students will have the opportunity to evaluate patients with a variety of diseases including malignancies. Students will attend scheduled staff lectures on nuclear medicine, basic nuclear physics and biology.

Assessment Methods

Students are evaluated by their interaction in teaching sessions and a final examination.

Prerequisites

Year I, II, III and IV standing.

Recommended Reading

- Nuclear Medicine in Clinical Diagnosis and Treatment, Peter JL (Ed) Churchill Livingstone, 2004
- Nükleer Kardiyoloji, Prof. Dr. İlhami Uslu, Uzm.Dr. Hurşit Soyer, Nobel Tıp Kitabevi, İstanbul, 2006.
Objectives and Contents

This course provides concentrated experience in the diagnosis and treatment of diseases that primarily affect the skin; and recognition of skin changes that reflect multisystem diseases. The students will do their clinical work and consultations and will attend teaching activities and scheduled lectures. Students will actively participate as clinical clerks in the diagnosis and therapy of patients with dermatologic problems together with the responsible clinical staff.

Assessment Methods

Students are evaluated by their interaction in teaching sessions and a final examination.

Prerequisites

Year I, II, III and IV standing.

Recommended Reading

### Objectives and Contents

This clerkship will teach basic methods of examination and differential diagnosis and treatment of patients in the areas of otology, neurological-otology, head and neck surgical oncology. Students will gain experience with patients presenting with various audiology, voice and swallowing problems. Students will have the opportunity to rotate through specialty services and the emergency room. A series of seminars will cover major topics in clinical otorhynolaryngology.

### Assessment Methods

Students are evaluated by their interaction in teaching sessions, clinic and a final examination.

### Prerequisites

Year I, II, III and IV standing.

### Recommended Reading

**Aims and Objectives of the Course**

This clerkship is designed to teach the student the basic principles of plastic and reconstructive surgery.

**Course Contents**

The students will have an opportunity to participate in surgical procedures, including cosmetic surgery, free tissue transfer, finger replantation, breast reconstruction, and all manner of reconstructive surgery. Students will be involved in outpatient clinics as well. A series of seminars will cover major topics in clinical plastic and reconstructive surgery.

**Assessment Methods**

Students are evaluated by their interaction in teaching sessions, clinic and a final examination.

**Prerequisites**

Year I, II, III and IV standing.

**Recommended Reading**

- Plastik Cerrahi, Prof. Dr. Orhan Çizmeci, Prof. Dr. Tahir Hayırlıoğlu, Prof. Dr. Sinan Nur Kesin, Nobel Tıp Kitabevi, İstanbul, 2000.
- Plastik Cerrahinin Sırları, Prof. Dr. Atilla Arıncı, Nobel Tıp Kitabevi, İstanbul, 2006.
### Aims and Objectives of the Course

To provide exposure to the diagnosis and pre- post-operative care of the cardiac surgical patient, with patient care.

### Course Contents

Students will have direct responsibility for patient care, from taking admission histories and doing physical examination to participating in cardiac surgical rounds and clinics. Patients will be assigned from wards and the student’s activities will be supervised and appropriately directed.

### Assessment Methods

Students are evaluated by their clinical attitudes and performances and a final written and practical examination.

### Prerequisites

Year I, II, III and IV standing.

### Recommended Reading

Aims and Objectives of the Course

This clerkship is designed to familiarize the medical clerks with both routine and unusual surgical problems in infants and children.

Course Contents

The experience includes patient examination and follow up, and attending at rounds and conferences. A series of seminars will cover major topics in pediatric surgery.

Assessment Methods

Students are evaluated by their interaction in teaching sessions, clinical and a final examination.

Prerequisites

Year I, II, III and IV standing.

Recommended Reading

Aims and Objectives of the Course

This course explores a survey of legal issues that concern modern medicine. Primarily the law that affects the doctor/patient relationship and forensic medicine cases will be discussed. Family Violence / Domestic Violence is also covered.

Course Contents

Students will have a chance to attend legal otopsy sessions and gain experience in writing legal and judicial reports. Students will also attend courts to observe how the legal issues are being handled in the court houses. The students will also attend formal teaching lectures.

Assessment Methods

Students are evaluated by attendance to autopsies, writing judicial reports and final examination.

Prerequisites

Year I, II, III and IV standing.

Recommended Reading

- Adli Tıp, Prof. Dr. Yaşar Bilge, Nobel Tıp Kitabevi, İstanbul, 2008.
**Dermatology**

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**Objectives and Contents**

This course provides concentrated experience in the diagnosis and treatment of diseases that primarily affect the skin; and recognition of skin changes that reflect multisystem diseases. The students will do their clinical work and consultations and will attend teaching activities and scheduled lectures. Students will actively participate as clinical clerks in the diagnosis and therapy of patients with dermatologic problems together with the responsible clinical staff.

**Assessment Methods**

Students are evaluated by their interaction in teaching sessions and a final examination.

**Prerequisites**

Year I, II, III and IV standing.

**Recommended Reading**

- Dermatolojide Algoritmik Tanı, Prof. Dr. Varol L. Aksungur, Argos.
**Psychiatry**

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<td>Instructor: Prof. Tarık Yılmaz MD.</td>
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**Objectives and Contents**

This clerkship expose students to fundamental issues in psychiatry: understanding and practice of interviewing skills, knowledge of psychiatric disorders and treatment, and familiarity and ease in talking with emotionally ill patient. Under the supervision of attending physician students will actively participate as clinical clerks in the diagnosis and therapy of patients with psychiatric illness and learn about the management of crisis. Students will also attend didactic seminars.

**Assessment Methods**

Students are evaluated by their interaction in teaching sessions and a final examination.

**Prerequisites**

Year I, II, III and IV standing.

**Recommended Reading**

- Kaplan and Sadock’s synopsis of psychiatry; behavioral sciences H.I. Kaplan, B.J. Sadock 8th ed., Williams and Wilkins, Baltimore, Maryland, USA.
Objectives and Contents

This clerkship is an introduction to neurological sciences during which the students will learn to take neurological histories, examine patients with particular attention to the nervous system and learn about and perform appropriate procedures used in the evaluation of patients at the neurology clinic. They learn to recognize and evaluate a wide variety of neurological problems, including neurological emergencies. Students will also attend, ward rounds, teaching conferences and participate in the care of patients under the supervision of neurology faculty members.

Assessment Methods

Students are evaluated by their interaction in teaching sessions, clinic and a final examination.

Prerequisites

Year I, II, III and IV standing.

Recommended Reading

- Nöromüsküler Hastalıklar, Prof. Dr. Türe Tunçbay, Nobel Tıp Kitabevi, İstanbul, 2004.
- Temel Nöroloji, Prof. Dr. Erhan Oğul, Nobel Tıp Kitabevi, Bursa, 2002.
Objectives and Contents

This clerkship provides the student with a sound understanding of the fundamentals of modern clinical neurological surgery in the emergency room, operating room, and on the clinical wards. The students participate in formal teaching conferences and rounds relating to neurological surgery as well as to allied disciplines such as neurological radiology.

Assessment Methods

Students are evaluated by their interaction in teaching sessions, clinic and a final examination.

Prerequisites

Year I, II, III and IV standing.

Recommended Reading

Orthopedics and Traumatology

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Instructor: Prof. Ayhan Nedim Kara MD, Prof. Z. Uğur Işıklar MD, Prof. Abdullah Göğüş MD, Assist. Prof. Neslihan Aksu MD.

Aims and Objectives of the Course

To present a broad overall perspective of orthopedics, the clinical clerkship will permit students to work on the wards and emergency department.

Course Contents

Students will have direct responsibility for patient care, from taking admission histories and doing physical examination to participating in ward rounds and clinics. Student's activities will be supervised and appropriately directed. Patients will be assigned from wards.

Assessment Methods

Students are evaluated by their clinical attitudes and performances and a final written and practical examination.

Prerequisites

Year I, II, III and IV standing.

Recommended Reading

- Miller'in Ortopedi Kitabı, Prof. Dr. Haluk Yetkin, Adya, 2006.
- Tıp Öğrencileri ve Pratisyen Hekimler İçin Ortopedi ve Travmatoloji, Prof. Dr. Güven Yüçeturk, İzmir Güven.
Aims and Objectives of the Course

This clerkship provides students with a broad overview of the field of Physical Medicine and Rehabilitation.

Course Contents

Students will attend an inpatient rehabilitation center, working with patients who have sustained stroke, brain surgery, amputation or spinal cord injury. Students observe patients during therapy sessions, participate in didactic lectures, and gain experience working as a member of a multi-disciplinary team. Students are exposed to patients with a variety of rehabilitation disorders including low back pain, osteoarthritis pain and sports medicine.

Assessment Methods

Students are evaluated by their interaction in teaching sessions, clinic and a final examination.

Prerequisites

Year I, II, III and IV standing.

Recommended Reading

Ophthalmology

Code: MD511

3.5 ECTS credits  5th year 2nd semester  Undergraduate  Required

h/week: 3  Lectures: 1  Practice: 2  In Turkish

Instructor: Prof. Halil Bahçecioğlu MD, Assoc. Prof. Şehnaz Karadeniz MD, Assist. Prof. Erdal Yüzbaşıoğlu MD, Assist. Prof. Halil Özgür Artunay MD.

Aims and Objectives of the Course

This clerkship will cover basic methods of examination and differential diagnosis and treatment of important eye diseases, as illustrated by patients from the eye clinic.

Course Contents

Medical clerks will gain experience with the various methods regarding routine ophthalmic measurements and examination. A series of seminars will cover major topics in clinical ophthalmology.

Assessment Methods

Students are evaluated by their interaction in teaching sessions, clinical and a final examination.

Prerequisites

Year I, II, III and IV standing.

Recommended Reading

- Pratik Göz Hastalıkları, Dr. Hikmet Özçetin, Bursa, 2004.
Aims and Objectives of the Course

This clerkship will orient students towards clinical urology with emphasis on the pathophysiology of disease and diagnostic and therapeutic modalities available for management.

Course Contents

Students will have the opportunity to rotate through specialty services and the emergency room. They will learn to take and interpret urologic history and physical signs, urinary tract infection, neuropathic bladder, significance of hematuria, disease of scrotal content, benign prostatic hyperplasia, bladder and kidney cancer and prostatic carcinoma. Students will be involved in outpatient clinics as well. A series of seminars will cover major topics in clinical urology.

Assessment Methods

Students are evaluated by their interaction in teaching sessions, clinical and a final examination.

Prerequisites

Year I, II, III and IV standing.

Recommended Reading

- Smith’s General Urology, 16th edition 2004, Tanagho E., McAninch J, LANGE
Aims and Objectives of the Course

To present a broad overall perspective of general thoracic surgery, the clinical clerkship will permit students to work on the wards and operating theaters.

Course Contents

Students will have direct responsibility for patient care, from taking admission histories and doing physical examination to participating in ward rounds and clinics. Student’s will be exposed to wide variety of general thoracic and chest diseases in order to become knowledgeable about the diagnostic and therapeutic modalities of patients with lung cancer, and tuberculosis. Student’s activities will be supervised and appropriately directed. Patients will be assigned from wards.

Assessment Methods

Students are evaluated by their clinical attitudes and performances and a final written and practical examination.

Prerequisites

Year I, II, III and IV standing.

Recommended Reading

6th year
**Objectives and Contents**

Fulfilling the statutory pre-graduation year. Pre-MD Students have the closest contact with the patients. Pre-MD Student is an extremely busy person with on-call commitments. Hospital attachments are predominantly for general medicine. The emphasis will be on managing common clinical conditions or situations, including peri-operative care.

**Assessment Methods**

There is no exit examination. Pre-MD Students are evaluated by their participation and effort in the clinical and practical duties.

**Prerequisites**

Year I, II, III, IV and V standing.

**Recommended Reading**

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**Objectives and Contents**

Fulfilling the statutory pre-graduation year. Pre-MD Students have the closest contact with the patients and the healthy children. Pre-MD Student is an extremely busy person with on-call commitments. Hospital attachments are predominantly will be at emergency pediatric department and assistance with the development of the healthy children. The emphasis will be on managing common clinical conditions or situations, including neonatal care.

**Assessment Methods**

There is no exit examination. Pre-MD Students are evaluated by their participation and effort in the clinical and practical duties.

**Prerequisites**

Year I, II, III, IV and V standing.

**Recommended Reading**

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Objectives and Contents

Fulfilling the statutory pre-graduation year. Pre-MD Students have the closest contact with the patients. Pre-MD Student is an extremely busy person with on-call commitments. Hospital attachments are predominantly for obstetrics and gynaecology at one of the two hospitals. The emphasis will be on managing common obstetrics and gynaecology conditions or situations, including peri-operative and labor care.

Assessment Methods

There is no exit examination. Pre-MD Students are evaluated by their participation and effort in the clinical and practical duties.

Prerequisites

Year I, II, III, IV and V standing.

Recommended Reading

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Objectives and Contents

Fulfilling the statutory pre-graduation year. Pre-MD Students have the closest contact with the patients. Pre-MD Student is an extremely busy person with on-call commitments. Hospital attachments are predominantly for emergency and surgical cases at one of the three hospitals. The emphasis will be on managing common emergency and general surgical conditions or situations, including emergency, peri and post operative care.

Assessment Methods

There is no exit examination. Pre-MD Students are evaluated by their participation and effort in the clinical and practical duties.

Prerequisites

Year I, II, III, IV and V standing.

Recommended Reading

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Objectives and Contents

Fulfilling the statutory pre-graduation year. Pre-MD Students have the closest contact with the patients attending Local Community Health Care Centers. Pre-MD Students are involved with the inoculations, help with the common symptoms and disorders; especially identifying what requires urgent hospital referral and what can be managed in the community.

Assessment Methods

There is no exit examination. Pre-MD Students are evaluated by their participation and effort in the clinical and practical duties.

Prerequisites

Year I, II, III, IV and V standing.

Recommended Reading

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Objectives and Contents

Fulfilling the statutory pre-graduation year. Pre-MD Students have the closest contact with the patients. Hospital attachments are predominantly for emergency psychiatric cases at one of the three hospitals. The emphasis will be on managing common emergency and outpatient care.

Assessment Methods

There is no exit examination. Pre-MD Students are evaluated by their participation and effort in the clinical and practical duties.

Prerequisites

Year I, II, III, IV and V standing.

Recommended Reading

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Elective

<table>
<thead>
<tr>
<th>ECTS credits</th>
<th>6th year</th>
<th>Undergraduate</th>
<th>Elective</th>
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<tbody>
<tr>
<td>6 week</td>
<td>4 week</td>
<td>In Turkish</td>
<td>In Turkish</td>
</tr>
</tbody>
</table>

Instructor:

**Objectives and Contents**

Fulfilling the statutory pre-graduation year. Pre-MD Students will set their own objectives for this period for variety of specialty attachments. These are predominantly in the specialty services of the teaching hospitals. They provide opportunities for exploring career options and more interested areas or making good any deficiencies the Pre-MD student would like to remedy in their training so far.

**Assessment Methods**

There is no exit examination. Pre-MD Students are evaluated by their participation and effort in the clinical and practical duties.

**Prerequisites**

Year I, II, III, IV and V standing.

**Recommended Reading**

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