

## Topics of Interest:

### Cell Biology

([http://ocw.core.org.cn/CORE/biology/cell-biology/Course\\_listing](http://ocw.core.org.cn/CORE/biology/cell-biology/Course_listing))

Course Description: Cell Biology is to acquaint the undergraduates with the basic knowledge, concepts and fundamental theories of cell structure, function, and the molecular mechanisms of life activities at the level of molecules, sub-cells and cells, as well as the brief history and most advanced fields of the subject being taught. This course include topics: review of cell biology and its researching methods, biomembrane system, genetic information carrier and expression system, cytoskeleton, and cell proliferation, differentiation and cell senescence and apoptosis. All the teaching contents are finished within 51 periods in one semester.

#### Online Course Contents:

Chapter 1: Introduction

Chapter 2: Techniques in Cell Biology

Chapter 3: Biomembranes: Their Structure, Chemistry and Functions

Chapter 4: Extracellular matrix, Cell junction and cell adhesion

Chapter 5: The Movement of Substances Across Cell Membranes

Chapter 6: Cell Signaling

Chapter 7: Endomembrane system, Protein Sorting and membrane trafficking

Chapter 8: Energy Generation in Mitochondria and Chloroplasts

Chapter 9: Nucleus and Chromosomes

Chapter 10: Cytoskeleton System

Chapter 11: Cell proliferation and its regulation

Chapter 12: Cell differentiation and Cancer cells

Chapter 13: Cell senescence and apoptosis

## Medicine

(<http://ocw.core.org.cn/CORE/medicine/>)

Topics Covered:

Diagnosis:

([http://ocw.core.org.cn/CORE/medicine/diagnosis/Course\\_listing](http://ocw.core.org.cn/CORE/medicine/diagnosis/Course_listing))

Online Course Contents: (<http://ocw.core.org.cn/CORE/medicine/diagnosis/online-coursewares/>)

Introduction

Introduction to Diagnostics, by Professor Wan Xuehong.

Symptoms

Fever

Hemoptysis

Dyspnea

Palpitation.

Physical Examination

Physical Examination of the Head and Neck

Chest Examination

Cardiovascular Examination

Abdomen Examination

Pelvic Examination

Neurological Examination

History and Physical Examination of the Orthopaedic Patient

Auxiliary Examination

i) Blood Routine Test

ii) Electrocardiogram

Chapter 1 Introductory Principles

Chapter 2 Basic ECG Wave

Chapter 3 ECG Leads

Chapter 4 The Normal ECG

Chapter 5 Electrical Axis and Axis Deviation

Bone Marrow Examination

Hemostasis and coagulation

Disorders of Lipid Metabolism

Liver Function

Renal Function

Internal Medicine:

([http://ocw.core.org.cn/CORE/medicine/internal-medicine/Course\\_listing](http://ocw.core.org.cn/CORE/medicine/internal-medicine/Course_listing))

Online Course Contents: (<http://ocw.core.org.cn/CORE/medicine/internal-medicine/online-coursewares/>)

Disease of Respiratory System

Bronchial asthma

Chronic Bronchitis and Obstructive Emphysema.

Pulmonary Tuberculosis.

Respiratory Failure

Disease of Cardiovascular System

Valvular Heart Disease

Cardiomyopathies

Heart Failure

Cardiac Arrhythmias

Hypertension

Coronary Artery Disease

Disease of Digestive System

Cirrhosis of the Liver

Acute Pancreatitis

Abdominal Tuberculosis

Disease of Urinary System

Acute Poisoning

Pesticide Poisoning

Nephrotic Syndrome

Urinary Tract Infection

Chronic Renal Failure

Hematology Disease

The Introduction to Leukemia and Acute Leukemia

Anemia Part 1 Part 2

Hemolytic Anemia

Hemorrhagic Diseases, by Professor Yang Yiming.

Idiopathic Thrombocytopenic Purpura, by Professor Yang Yiming.

Chronic Myeloid Leukemia, by Professor Yang Yiming.

Chronic Lymphocytic Leukemia, by Professor Yang Yiming.

Rheumatic Diseases

General introduction of Rheumatic disease

Endocrine System Disease

Hyperthyroidism

Diabetes Mellitus

## Otolaryngology-Head and Neck Surgery:

([http://ocw.core.org.cn/CORE/medicine/otolaryngology-head-and-neck-surgery/Course\\_listing](http://ocw.core.org.cn/CORE/medicine/otolaryngology-head-and-neck-surgery/Course_listing))

Course Description: Otolaryngology is a regional specialty, involving both medical and surgical management of problems in the head and neck. The term otorhinolaryngology is derived from the Greek words for ear, nose and larynx, and the abbreviated term "ENT" has been commonly used for many years. This appellation does not fully reflect the scope of a discipline which is concerned with disorders of face, ears, oral cavity and pharynx, upper respiratory tract, neck, and even certain intracranial tumors. For this reason, "Head and Neck Surgery" was added to the official title. An understanding of head and neck anatomy, physiology, and pathology is necessary to manage diverse disorders of head and neck structures and diagnose and manage the diseases of sinuses, larynx oral cavity, upper pharynx, neck and face#including infectious diseases, benign and malignant tumors, facial trauma, congenital deformities, cosmetic plastic and reconstructive surgery. Teaching of otolaryngology at the medical student level has two primary goals. The first is to ensure that all medical school graduates have a firm grasp of basic principles related to the specialty: the recognition and treatment of common disorders of the head and neck, the initial management of head and neck emergencies, and indications for specialist referral. The second goal is to provide sufficient exposure to the specialty to assist in informed career planning.

## Pharmacy Administration:

([http://ocw.core.org.cn/CORE/medicine/pharmacy-administration-1/Course\\_listing](http://ocw.core.org.cn/CORE/medicine/pharmacy-administration-1/Course_listing))

Course Description: The general purpose of this course is to enable the students to be knowledge with the pharmacy environment in which he'll work, to be familiarized with the social role of pharmacy and pharmacist, to realize the ethical responsibilities he'll take, to know, to grasp, to obey all the codes of pharmacy practice, is to enable the students to be a well-prepared pharmacy professionals. Therefore, this course will concentrate on introducing and elaborating every facet of the pharmacy practice codes. The basic instruction of this course includes two part: the basic principles of legal and ethical responsibilities to which a pharmacist is subject in the preformance of his professional function; and the specific requirements of applicable statutes and codes of every specific pharmacy preffession. There will be lectures, electives, and pharmacy practice involved in this course.

Online Course Contents: (<http://ocw.core.org.cn/CORE/medicine/pharmacy-administration-1/lecture-notes/>)

Preface

Introduction

National drug policies & drug administration

Pharmacy, pharmacist & pharmacy ethics

Pharmaceutical affair constitution

Legislation of drug administration

Administration of drugs registration

Administration of drugs under special control

Administration of traditional Chinese drug

Administration of drug information

Pharmaceutical industry & GMP

Pharmaceutical marketing & administration of drug distribution

Administration of health system pharmacy

Protection of medicine Intellectual Property