

Republic of Iraq  
Ministry of Higher Education and  
scientific research  
University of Baghdad  
Quality Assurance and Academic  
Performance Department



College : Pharmacy  
Department : Pharmacology  
& Toxicology  
Stage : First Year

## Course Syllabus for Medical Terminology

Name of the Teacher of the Course: Dr. Murtadha M. Al-Shareifi

Accademic Rank: Doctor Lecturer

Degree: Ph.D Pharmacology & Toxicology

E-mail: [alshareifi\\_m@yahoo.com](mailto:alshareifi_m@yahoo.com)

<b>Course Title</b>	<b>Pharmacology I</b>		
<b>Academic System</b>	<input checked="" type="checkbox"/> X	<b>Semester System</b>	<input type="checkbox"/> <b>Annual</b>
<b>Course Objectives</b>	In this course, students will learn to pronounce, spell, and define medical and pharmaceutical terms used in health care settings. It will use a word-building strategy that helps them discover connections and relationships among word roots, prefixes, and suffixes. They will learn the meaning of each part of a complex medical and pharmaceutical term. and be able to put the parts together and define the term		



<b>Textbooks</b>	<b>Edward CC, (Ed.); A Short Course in Medical Terminology; 1st Ed.; Lippincott Williams and Wilkins; 2008</b>  ➤  ➤				
<b>Reference Books</b>	➤ ➤ ➤ ➤				
<b>Course Assessment for Semester System (%100)</b>	<b>Theoretical Content Exam</b>	<b>Laboratory work</b>	<b>Quizzes</b>	<b>Project</b>	<b>End Semester Examination</b>
	<b>25%</b>	<b>-----</b>	<b>5%</b>		<b>70%</b>
<b>Course Assessment for Annual System (%100)</b>	<b>First Term</b>	<b>Midterm Exam</b>	<b>Second Term</b>	<b>Laboratory Work</b>	<b>Final Examination</b>
				<b>-----</b>	
<b>Additional Information</b>					

## Weekly Schedule for Medical Terminology



week	Theoretical Content	Laboratory Work	Notes
1	Basic word roots and common suffixes 1	-----	
2	More word roots, suffixes and prefixes related to pharmaceutical sciences (pharmacognosy, clinical pharmacy, (pharmaceutics,...etc 1	-----	
3	Basic anatomical terms and abnormal conditions 2	-----	
4	The genitals and urinary tract 1	-----	
5	The gastrointestinal tract 1	-----	
6	The heart and cardiovascular system 1	-----	
7	Symptoms, diagnoses, treatments, communication qualifiers, and statistics 2	-----	
8	Growth and development, and body orientation 1	-----	
9	Gynecology, pregnancy, and childbirth 1	-----	



10	<b>The eye and the respiratory tract 1</b>		
11	<b>The nervous system and behavioral disorders 1</b>	-----	
12	<b>Continued- The nervous system and behavioral disorders 1</b>	-----	
13	<b>Blood and immunity 1</b>	-----	
14			
15			
16			



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*College : Pharmacy  
Department : Pharmacology  
& Toxicology  
Stage : Second Year*

## **Course Syllabus for physiology I**

**Name of the First Teacher of the Course:**

**Accademic Rank:**

**Degree:**

**E-mail**

**Name of the Second Teacher of the Course**

**Accademic Rank**

**Name of the Teacher of the Course: Sarmed H. Kathem**

**Accademic Rank: Doctor lecturer**

**Degree: MSc Pharmacology & Toxicology.**

**E-mail: [sarmedkathem@yahoo.com](mailto:sarmedkathem@yahoo.com)**





<b>Course Title</b>	<b>Physiology I</b>				
<b>Academic System</b>	<input checked="" type="checkbox"/> <b>Semester System</b>	<input type="checkbox"/> <b>Annual</b>			
<b>Course Objectives</b>	<p>To enable students understanding the basic principles of physiological functions of different tissues and organs of the human being, and how to evaluate these functions and correlate them with the normal and abnormal conditions. It also emphasizes on the role of homeostatic and hemodynamic changes in the integration of physiological .status</p>				
<b>Textbooks</b>	<p><b>Review of Medical Physiology; Ganong W.F (Ed.); latest ed.</b></p> <ul style="list-style-type: none"> <li>➤</li> <li>➤</li> <li>➤</li> </ul>				
<b>Reference Books</b>	<p><b>Textbook of Medical Physiology by Guyton AC; .latest edition</b></p> <ul style="list-style-type: none"> <li>➤</li> <li>➤</li> <li>➤</li> </ul>				
<b>Course Assessment for Semester System (%100)</b>	<b>Theoretical Content Exam</b>	<b>Laboratory work</b>	<b>Quizzes</b>	<b>Project</b>	<b>End Semester Examination</b>
	<b>25%</b>	<b>20%</b>	<b>5%</b>		<b>50%</b>
<b>Course Assessment for Annual System</b>	<b>First Term</b>	<b>Midterm Exam</b>	<b>Second Term</b>	<b>Laboratory Work</b>	<b>Final Examination</b>



(%100)					
<b>Additional Information</b>					

### Weekly Schedule

week	Theoretical Content	Laboratory Work	Notes
1	<p>The general and cellular basis of medical physiology.</p> <p>The general and cellular basis of medical physiology 2 .</p> <p>The general and cellular basis of medical physiology3 .</p>	Experiments on respiratory system (respiratory rate and volumes).	
2	<p>Physiology of nerves and muscles</p> <p>Nerve cells; excitation and ; Properties of mixed nerves; glia; neurotrophins</p>	Introduction to blood physiology	
3	<p>Nerve fiber types and functions;</p> <p>Synaptic transmission: Reflexes; cutaneous</p> <p>; Muscles: Skeletal muscle; smooth muscle; cardiac muscle.</p>	Blood typing and blood transfusion	
4	<p>Introduction to CNS physiology</p> <p>higher function of the nervous system;</p>	Tutorial.	





	control of posture and movement;		
5	alert behavior, sleep and electrical activity of the brain;	Packed cell volume. بسم الله الرحمن الرحيم	;
	deep and visceral sensations; central regulation of visceral		
	; the autonomic nervous system		
6	Respiration: Respiratory zones;	• Determination of hemoglobin concentration.	
	Mechanics of respiration; air volumes; respiratory muscles		
	; compliance of the lungs and chest wall; surfactants;		
7	differences in ventilation and blood flow in different parts of the lung;	Blood indices	
	Dead space and uneven ventilation; Regulation of respiration: Neural control		
	Pulmonary circulation: Pressure, volume and flow. Gas transport between the		
8	Respiratory centers; Regulation of respiratory activity: Chemical factors; non chemical factors;	Determination of bleeding time and clotting time.	;
	Respiratory adjustment in health and disease;		
	Effect of exercise; Hypoxia; Emphysema; Asthma		
9	Renal Physiology: Introduction; innervations of the renal vessels renal blood flow;	Tutorial.	.
	renal clearance glomerular filtration rate (GFR): Measurements; factor affecting GFR;		



	<p><b>Filtration fraction; reabsorption of Na<sup>+</sup>, Cl<sup>-</sup> and glucose.</b></p> <p><b>Tubuloglomerular feedback and glomerulotubular balance;</b></p>		
10	<p><b>water excretion in: proximal tubules; loop of Henle; distal tubules; collecting ducts; the counter current mechanism;</b></p>	. Blood pressure.	
	<p><b>role of urea; water diuresis and osmotic diuresis; acidification of the urine: H<sup>+</sup> secretion; reaction with buffers; ammonia secretion;</b></p>		
	<p><b>factors affecting acid secretion; bicarbonate excretion; regulation of Na<sup>+</sup>, K<sup>+</sup> and Cl<sup>-</sup> excretion; uremia; acidosis; micturition</b></p>		
11	<p><b>Cardiovascular system: origin and spread of cardiac excitation; the electrocardiogram; cardiac arrhythmias;</b></p>	Effect of exercise on blood pressure.	
	<p><b>electrographic findings in cardiac diseases; mechanical events of the cardiac cycle;</b></p>		
	<p><b>Cardiac output; CV regulatory mechanisms: Local regulatory mechanisms; systemic regulation by the nervous system;</b></p>		
12	<p><b>systemic regulation by hormones</b></p>	Electrocardiogram (ECG).	
	<p><b>Coronary circulation; Hypertension</b></p>		
	<p><b>Angina &amp; Heart failure pectoris</b></p>		
13		Tutorial and review.	
14			



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Performance Department



College : Pharmacy  
Department : Pharmacology  
& Toxicology  
Stage : Second Year:

## Course Syllabus for physiology II

**Name of the First Teacher of the Course: Dr. Sadiq M. A. AL-Hiti**

**Accademic Rank: Ass. Proff.**

**Degree: PhD. Physiology**

**E-mail: [sadiqalhiti@yahoo.com](mailto:sadiqalhiti@yahoo.com)**

**Name of the Second Teacher of the Course: Dr.Murtadha M. Al-Sharifei**

**Accademic Rank: Doctor lecturer**

**Degree: PhD. Pharmacology & Toxicology**

**E-mail: [alshareifi\\_m@yahoo.com](mailto:alshareifi_m@yahoo.com)**

**Name of the Third Teacher of the Course: Dr.Ihab I. AL-Khalifa**

**Accademic Rank: Doctor lecturer**

**Degree: PhD. Pharmacology & Toxicology**

**E-mail: [dr\\_ihab75@yahoo.com](mailto:dr_ihab75@yahoo.com)**



<b>Course Title</b>	<b>Physiology I</b>				
<b>Academic System</b>	<input checked="" type="checkbox"/> <b>Semester System</b>	<input type="checkbox"/> <b>Annual</b>			
<b>Course Objectives</b>	To enable students understanding the basic principles of physiological functions of different tissues and organs of the human being, and how to evaluate these functions and correlate them with the normal and abnormal conditions. It also emphasizes on the role of homeostatic and hemodynamic .changes in the integration of physiological status				
<b>Textbooks</b>	<b>Review of Medical Physiology; Ganong W.F (Ed.); latest ed.</b> <ul style="list-style-type: none"> <li>➤</li> <li>➤</li> <li>➤</li> </ul>				
<b>Reference Books</b>	<b>Textbook of Medical Physiology by Guyton AC; .latest edition</b> <ul style="list-style-type: none"> <li>➤</li> <li>➤</li> <li>➤</li> </ul>				
<b>Course Assessment for Semester System (%100)</b>	<b>Theoretical Content Exam</b>	<b>Laboratory work</b>	<b>Quizzes</b>	<b>Project</b>	<b>End Semester Examination</b>
	<b>25%</b>	<b>20%</b>	<b>5%</b>		<b>50%</b>



Course Assessment for Annual System (%100)	First Term	Midterm Exam	Second Term	Laboratory Work	Final Examination
<b>Additional Information</b>					

### Weekly Schedule for physiology II 2<sup>nd</sup> semester

week	Theoretical Content	Laboratory Work	Notes
1	GIT functions , digestion & absorption of Carbohydrates & proteins	Differential W.B.C count	
	GIT functions , digestion & absorption 2		
2	Digestion & absorption of lipids ,water & electrolytes	Total W.B.C. count	
	Introduction to endocrinology		
3	Energy balance & metabolism	Tutorial	
	Energy balance & metabolism 2		
4	Gastrointestinal hormones	Platelets counting	
	Gastrointestinal hormones 2		
5	The pituitary gland	Erythrocyte sedimentation rate (ESR)	
	GIT ,mouth and esophagus		
6	The stomach	Tutorial	
	The stomach 2		
7	Thyroid gland & thyroid hormone	Blood grouping	
	Regulation of thyroid hormone secretion		
8	The small intestine & colon	Anemia & polycythemia	
	Exocrine functions of pancreas		
9	Exocrine functions of pancreas 2	Tutorial	
	Calcium metabolism		
10	The liver & biliary system		



	<b>The liver &amp; biliary system 2</b>		
11	<b>Bone physiology</b>		
	<b>Bone physiology 2</b>		
12	<b>Endocrine functions of pancreas</b>		
	<b>Endocrine functions of pancreas 2</b>		
13	<b>The adrenal medulla</b>		
	<b>Regulation of pancreatic secretion</b>		
14	<b>Adrenal cortex hormones</b>		
	<b>Regulation of adrenal hormones</b>		
15	<b>Male reproductive system</b>		
	<b>Control of testicular hormones</b>		
16	<b>Female reproductive system</b>		
	<b>Female reproductive system 2</b>		
17	<b>Blood , bone marrow cellular elements</b>		
	<b>The W.B.Cs cells</b>		
18	<b>Immunity cellular elements</b>		
	<b>Anemia</b>		
19	<b>Anemia 2</b>		
	<b>Polycythemia</b>		
20	<b>Blood groups &amp; Rh factor</b>		
	<b>Platelets homeostasis</b>		
21			



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Performance Department



College : Pharmacy  
Department : Pharmacology  
& Toxicology  
Stage : Second Year:

## Course Syllabus for physiology II

**Name of the First Teacher of the Course: Dr. Munaf Hashim**

**Accademic Rank:.. Doctor lecturer**

**Degree: PhD. \ Pharmacology & Toxicology**

**E-mail: [munafi@yahoo.com](mailto:munafi@yahoo.com)**

**Name of the Second Teacher of the Course: Dr.Ahmad Hamid**

**Accademic Rank: Doctor lecturer**

**Degree: PhD. Pharmacology & Toxicology**

**E-mail: [ahmad75@yahoo.com](mailto:ahmad75@yahoo.com)**

**Name of the Third Teacher of the Course: Ammar Ali**

**Accademic Rank:MSc lecturer**

**Degree:.MSc Pharmacology & Toxicology**

**E-mail: [ammar55@yahoo.com](mailto:ammar55@yahoo.com)**



<b>Course Title</b>	<b>Physiology I</b>				
<b>Academic System</b>	<input checked="" type="checkbox"/>	<b>Semester System</b>	<input type="checkbox"/>	<b>Annual</b>	
<b>Course Objectives</b>	To enable students understanding the basic principles of physiological functions of different tissues and organs of the human being, and how to evaluate these functions and correlate them with the normal and abnormal conditions. It also emphasizes on the role of homeostatic and hemodynamic .changes in the integration of physiological status				
<b>Textbooks</b>	<b>Review of Medical Physiology; Ganong W.F (Ed.); latest ed.</b> ➤ ➤ ➤				
<b>Reference Books</b>	<b>Textbook of Medical Physiology by Guyton AC; .latest edition</b> ➤ ➤ ➤				
<b>Course Assessment for Semester System (%100)</b>	<b>Theoretical Content Exam</b>	<b>Laboratory work</b>	<b>Quizzes</b>	<b>Project</b>	<b>End Semester Examination</b>
	<b>25%</b>	<b>20%</b>	<b>5%</b>		<b>50%</b>



Course Assessment for Annual System (%100)	First Term	Midterm Exam	Second Term	Laboratory Work	Final Examination
<b>Additional Information</b>					

### Weekly Schedule for physiology II 2<sup>nd</sup> semester

week	Theoretical Content	Laboratory Work	Notes
1	GIT functions , digestion & absorption of Carbohydrates & proteins	Differential W.B.C count	
	GIT functions , digestion & absorption 2		
2	Digestion & absorption of lipids ,water & electrolytes	Total W.B.C. count	
	Introduction to endocrinology		
3	Energy balance & metabolism	Tutorial	
	Energy balance & metabolism 2		
4	Gastrointestinal hormones	Platelets counting	
	Gastrointestinal hormones 2		
5	The pituitary gland	Erythrocyte sedimentation rate (ESR)	
	GIT ,mouth and esophagus		
6	The stomach	Tutorial	
	The stomach 2		
7	Thyroid gland & thyroid hormone	Blood grouping	
	Regulation of thyroid hormone secretion		
8	The small intestine & colon	Anemia & polycythemia	
	Exocrine functions of pancreas		
9	Exocrine functions of pancreas 2	Tutorial	
	Calcium metabolism		
10	The liver & biliary system		



	<b>The liver &amp; biliary system 2</b>		
11	<b>Bone physiology</b>		
	<b>Bone physiology 2</b>		
12	<b>Endocrine functions of pancreas</b>		
	<b>Endocrine functions of pancreas 2</b>		
13	<b>The adrenal medulla</b>		
	<b>Regulation of pancreatic secretion</b>		
14	<b>Adrenal cortex hormones</b>		
	<b>Regulation of adrenal hormones</b>		
15	<b>Male reproductive system</b>		
	<b>Control of testicular hormones</b>		
16	<b>Female reproductive system</b>		
	<b>Female reproductive system 2</b>		
17	<b>Blood , bone marrow cellular elements</b>		
	<b>The W.B.Cs cells</b>		
18	<b>Immunity cellular elements</b>		
	<b>Anemia</b>		
19	<b>Anemia 2</b>		
	<b>Polycythemia</b>		
20	<b>Blood groups &amp; Rh factor</b>		
	<b>Platelets homeostasis</b>		
21			



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College: Pharmacy  
Department: Pharmacology  
& Toxicology  
Stage: fifth year

## Course Syllabus for Clinical Toxicology

Name of the First Teacher of the Course: Munaf hashim

Accademic Rank: Doctor Lecturer

Degree: Ph.D Pharmacology & Toxicology

E-mail: [munafi@yahoo.com](mailto:munafi@yahoo.com)

Name of the Second Teacher of the Course: Dr. Ahmed hamid

Accademic Rank: : Doctor Lecturer

Degree: Ph.D Pharmacology & Toxicology

E-mail: [ahmad75@yahoo.com](mailto:ahmad75@yahoo.com)

Course Title			
Academic System	<input checked="" type="checkbox"/>	Semester System	<input type="checkbox"/> Annual



<p><b>Course Objectives</b></p>	<p>The course aims to provide students with the principles and skill required to deal with the toxicity of chemicals and drugs in clinical settings; it enables students to correlate signs and symptoms of toxicity with the analytical data, and to know how to establish preventive and therapeutic measures for poisoning cases.</p>
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<p><b>Textbooks</b></p>	<p><b>Gossel TA, Bricker TD, (Eds.); Principles of Clinical Toxicology; latest edition</b></p> <ul style="list-style-type: none"> <li>➤</li> <li>➤</li> <li>➤</li> </ul>
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<p><b>Reference Books</b></p>	<p><b>GOLD FRANK : Clinical toxicology</b></p> <ul style="list-style-type: none"> <li>➤</li> <li>➤</li> <li>➤</li> </ul>
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<p><b>Course Assessment for Semester System (%100)</b></p>	<p><b>Theoretical Content Exam</b></p>	<p><b>Laboratory work</b></p>	<p><b>Quizzes</b></p>	<p><b>Project</b></p>	<p><b>End Semester Examination</b></p>
	<p><b>25%</b></p>	<p><b>20%</b></p>	<p><b>5%</b></p>	<p>-----</p>	<p><b>50%</b></p>
<p><b>Course Assessment for Annual System (%100)</b></p>	<p><b>First Term</b></p>	<p><b>Midterm Exam</b></p>	<p><b>Second Term</b></p>	<p><b>Laboratory Work</b></p>	<p><b>Final Examination</b></p>
	<p></p>	<p></p>	<p></p>	<p></p>	<p></p>



**Additional Information**



**Weekly Schedule**

week	Theoretical Content	Laboratory Work	Notes
1	Initial Evaluation and management of poisoned patients 1		
2	Continued- introduction: Pediatric poisoning 1		
3	Continued- introduction: geriatric patients 1		
4	Over the counter drugs: caffeine, theophylline 1		
5	Continued: antihistamine and decongestants. 1		
6	Cardiovascular drugs: B - blockers, Ca <sup>++</sup> -channels blockers , Digoxin 6	Laboratory Principles or Toxicological Screening	
	Anti-arrhythmic , ACE-inhibitors 6		
7	Hypoglycemia 1	Over the counter drugs: Case on Acetaminophen poisoning	
	Hypoglycemia 1		
8	Vitamins 1	Case on Salicylates; poisoning	
		Urine analysis of toxins and chemicals.	
9	Corrosive Acids and bases 1	evaluation of urine salicylates	
	Antiseptics, disinfectants, camphor, mouth repellents 2		
10	Hydrocarbon 1	Cardiac glycosides toxicity: Digitalis.	
	NSAIDs Analgesics 1		
11	NSAIDs Analgesics 2	Cases on toxicity with foods and dietary supplements 1	



	Opioids 1		
12	Opioids 1	Cases on toxicity with foods and dietary supplements 2	
	Drugs of abuse (hallocinoges , marjuana , amphetamine 1		
13	Sedative hypnotics 1	Identification of some common poisons in biological samples Arsenic; cyanide;	
	Sedative hypnotics 1		
14	TCA –Antidepressents 1	Phenothiazine derivatives; barbiturates poisoning	
	TCA –Antidepressents 1		
15	MOAI – antidepressents 1	Evaluation of cases of toxicity with anti-parkinsonian drugs	
	Phenothiazine 1		
16	Anticholinergic drugs 1	. Evaluation of drug toxicity on human.	
17	Botanicals and plants-derived toxins: Herbal preparation: Toxic plants; Poisonous mushrooms 4		



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College : Pharmacy  
Department : Pharmacology  
& Toxicology  
Stage : Second Year

## Course Syllabus for physiology I

**Name of the First Teacher of the Course: Dr. Munaf Hashim**

**Accademic Rank:doctor lecturer.**

**Degree: PhD. Pharmacology**

**E-mail: [munafi@yahoo.com](mailto:munafi@yahoo.com)**

**Name of the Second Teacher of the Course: Dr.Ahmad Hamid**

**Accademic Rank: Doctor lecturer**

**Degree: PhD. Pharmacology & Toxicology**

**E-mail: [ahmad75@yahoo.com](mailto:ahmad75@yahoo.com)**

**Name of the Third Teacher of the Course: Ammar Ali**

**Accademic Rank:MSc lecturer**

**Degree: MSc Pharmacology & Toxicology.**

**E-mail: [ammar55@yahoo.com](mailto:ammar55@yahoo.com)**



<b>Course Title</b>	<b>Physiology I</b>				
<b>Academic System</b>	<input checked="" type="checkbox"/> <b>Semester System</b>	<input type="checkbox"/> <b>Annual</b>			
<b>Course Objectives</b>	<p>To enable students understanding the basic principles of physiological functions of different tissues and organs of the human being, and how to evaluate these functions and correlate them with the normal and abnormal conditions. It also emphasizes on the role of homeostatic and hemodynamic changes in the integration of physiological .status</p>				
<b>Textbooks</b>	<p><b>Review of Medical Physiology; Ganong W.F (Ed.); latest ed.</b></p> <ul style="list-style-type: none"> <li>➤</li> <li>➤</li> <li>➤</li> </ul>				
<b>Reference Books</b>	<p><b>Textbook of Medical Physiology by Guyton AC; .latest edition</b></p> <ul style="list-style-type: none"> <li>➤</li> <li>➤</li> <li>➤</li> </ul>				
<b>Course Assessment for Semester System (%100)</b>	<b>Theoretical Content Exam</b>	<b>Laboratory work</b>	<b>Quizzes</b>	<b>Project</b>	<b>End Semester Examination</b>
	<b>25%</b>	<b>20%</b>	<b>5%</b>		<b>50%</b>

Course Assessment for Annual System (%100)	First Term	Midterm Exam	Second Term	Laboratory Work	Final Examination
<b>Additional Information</b>					

### Weekly Schedule

week	Theoretical Content	Laboratory Work	Notes
1	The general and cellular basis of medical physiology.	Experiments on respiratory system (respiratory rate and volumes).	
	The general and cellular basis of medical physiology 2 .		
	The general and cellular basis of medical physiology3 .		
2	Physiology of nerves and muscles	Introduction to blood physiology	
	Nerve cells; excitation and ; Properties of mixed nerves; glia; neurotrophins		
3	Nerve fiber types and functions;	Blood typing and blood transfusion	
	Synaptic transmission: Reflexes; cutaneous ; Muscles: Skeletal muscle; smooth muscle; cardiac muscle.		
4	Introduction to CNS physiology	Tutorial.	





	<p>higher function of the nervous system;</p> <p>control of posture and movement;</p>		
5	<p>alert behavior, sleep and electrical activity of the brain;</p> <p>deep and visceral sensations; central regulation of visceral ; the autonomic nervous .system</p>	Packed cell volume.	;
6	<p>Respiration: Respiratory zones;</p> <p>Mechanics of respiration; air volumes; respiratory muscles</p> <p>; compliance of the lungs and chest wall; surfactants;</p>	<p>. Determination of hemoglobin concentration.</p>	
7	<p>differences in ventilation and blood flow in deferent parts of the lung;</p> <p>Dead space and uneven ventilation; Regulation of respiration: Neural control</p> <p>Pulmonary circulation: Pressure, volume and flow. Gas transport between the</p>	Blood indices	
8	<p>Respiratory centers; Regulation of respiratory activity: Chemical factors; non chemical factors;</p> <p>Respiratory adjustment in health and disease;</p> <p>Effect of exercise; Hypoxia; Emphysema; Asthma</p>	Determination of bleeding time and clotting time.	;
9	<p>Renal Physiology: Introduction; innervations of the renal vessels renal blood flow;</p> <p>renal clearance glomerular filtration rate (GFR): Measurements; factor affecting GFR;</p>	Tutorial.	.



	<p><b>Filtration fraction; reabsorption of Na<sup>+</sup>, Cl<sup>-</sup> and glucose.</b></p> <p><b>Tubuloglomerular feedback and glomerulotubular balance;</b></p>		
10	<p><b>water excretion in: proximal tubules; loop of Henle; distal tubules; collecting ducts; the counter current mechanism;</b></p>	. Blood pressure.	
	<p><b>role of urea; water diuresis and osmotic diuresis; acidification of the urine: H<sup>+</sup> secretion; reaction with buffers; ammonia secretion;</b></p>		
	<p><b>factors affecting acid secretion; bicarbonate excretion; regulation of Na<sup>+</sup>, K<sup>+</sup> and Cl<sup>-</sup> excretion; uremia; acidosis; micturition</b></p>		
11	<p><b>Cardiovascular system: origin and spread of cardiac excitation; the electrocardiogram; cardiac arrhythmias;</b></p>	Effect of exercise on blood pressure.	
	<p><b>electrographic findings in cardiac diseases; mechanical events of the cardiac cycle;</b></p>		
	<p><b>Cardiac output; CV regulatory mechanisms: Local regulatory mechanisms; systemic regulation by the nervous</b></p>		
12	<p><b>systemic regulation by hormones</b></p>	Electrocardiogram (ECG).	
	<p><b>Coronary circulation; Hypertension</b></p>		
	<p><b>Angina &amp; Heart failure pectoris</b></p>		
13		Tutorial and review.	
14			



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College : pharmacy  
Department : pharmacology  
& toxicology  
Stage : fourth Year

## Course Syllabus for General Toxicology / 2<sup>nd</sup> semester

Name of the First Teacher of the Course: Dr. Munaf Hashim

Accademic:doctor lecturer

Degree: Ph.D Pharmacology & Toxicology

E-mail: [munaf@yahoo.com](mailto:munaf@yahoo.com)

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Name of the Second Teacher of the Course: Dr. Ahmad Hamid

Accademic Rank: doctor lecturer

Degree: Ph.D Pharmacology & Toxicology

E-mail: [ahmad75@yahoo.com](mailto:ahmad75@yahoo.com)



<b>Course Title</b>	<b>General Toxicology</b>				
<b>Academic System</b>	<input checked="" type="checkbox"/>	<b>Semester System</b>	<input type="checkbox"/>	<b>Annual</b>	
<b>Course Objectives</b>	<p>To study the principle of exposure to different chemicals and environmental factors, their sources, mechanisms of toxicity and their risk to human being; it enables students to understand the required measures to protect living organisms against the suspected toxic hazards</p>				
<b>Textbooks</b>	<p>Casarett and Doull, Toxicology, the Basic Science of Poisons; latest edition</p> <ul style="list-style-type: none"> <li>➤</li> <li>➤</li> <li>➤</li> </ul>				
<b>Reference Books</b>	<p><b>GOLD FRANK : Clinical toxicology</b></p> <ul style="list-style-type: none"> <li>➤</li> <li>➤</li> <li>➤</li> <li>➤</li> </ul>				
<b>Course Assessment for Semester System</b>	<b>Theoretical Content Exam</b>	<b>Laboratory work</b>	<b>Quizzes</b>	<b>Project</b>	<b>End Semester Examination</b>



(%100)	25 %	20%	5%		50%
<b>Course Assessment for Annual System (%100)</b>	<b>First Term</b>	<b>Midterm Exam</b>	<b>Second Term</b>	<b>Laboratory Work</b>	<b>Final Examination</b>
<b>Additional Information</b>					

### Weekly Schedule

<b>week</b>	<b>Theoretical Content</b>	<b>Laboratory Work</b>	<b>Notes</b>
1	Introduction: general consideration; host factor, 1	General introduction to practical toxicology	
	Continue- Introduction: environmental factors of toxic effects 1		
2	Liver toxicity 1	General introduction to practical toxicology 2	
	Liver toxicity 1		
3	Kidney toxicity 1	Acute toxicity study, determination of LD50.	
	Kidney toxicity 1		
4	Respiratory toxicity 1	Nicotine toxicity	
	Respiratory toxicity 1		
5	Toxicity of pesticides 1	Methanol toxicity	
	Toxicity of pesticides 1		
6	CNS toxicity 1	Ethanol toxicity	
	CNS toxicity 1		
7	Cardiac toxicity 1	Carbon monoxide ( CO) toxicity	
	Cardiac toxicity 1		
8	Blood toxicity 1	Cyanide toxicity	
	Blood toxicity 1		
9	Mutagenesis 1	Organophosphorous toxicity	
	Carcinogenesis 1		



10	Carcinogenesis 2	Metal toxicity	
	Continued- Carcinogenesis 1		
11	Toxicity of metals 2	Selected Seminars	
	Toxicity of metals 3		
12	Toxicity of trace elements 1	Selected Seminars	
	Toxicity of water & soil pollutants 1		
13	Toxicity of trace elements 1	Selected Seminars	
	Toxicity of solvents 1		
14	Toxicity of solvents 1	Selected Seminars	
	Environmental & pollution toxicity 1		
15	Environmental & pollution toxicity 1	Selected Seminars	
	Toxicity of plants 1		
16	Toxicity of plants 1	Selected Seminars	
17			



Republic of Iraq  
Ministry of Higher Education and  
scientific research  
University of Baghdad  
Quality Assurance and Academic  
Performance Department



College : Pharmacy  
Department : Pharmacology  
& Toxicology  
Stage : Third Year

## Course Syllabus for pharmacology I

Name of the First Teacher of the Course: Dr. Ali Faris

Accademic Rank: Doctor Lecturer

Degree: Ph.D Pharmacology & Toxicology

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Name of the Second Teacher of the Course: Dr. Sajida Hussein

Accademic Rank: Doctor Prof.

Degree: Ph.D Pharmacology & Toxicology

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<b>Course Title</b>	<b>Pharmacology I</b>				
<b>Academic System</b>	<input checked="" type="checkbox"/>	<b>Semester System</b>	<input type="checkbox"/>	<b>Annual</b>	
<b>Course Objectives</b>	<p>To introduce the pharmacy students to the basis of general pharmacology. The student will learn about various body systems and drugs used to affect them in health and disease. Moreover the course will cover the drugs used to treat .microbial infections</p>				
<b>Textbooks</b>	<p>Lipincott Pharmacology 3rd Edition, 2006</p> <ul style="list-style-type: none"> <li>➤</li> <li>➤</li> <li>➤</li> </ul>				
<b>Reference Books</b>	<ul style="list-style-type: none"> <li>➤</li> <li>➤</li> <li>➤</li> <li>➤</li> </ul>				
<b>Course Assessment for Semester System</b> (%100)	<b>Theoretical Content Exam</b>	<b>Laboratory work</b>	<b>Quizzes</b>	<b>Project</b>	<b>End Semester Examination</b>
	25%	-----	5%		70%
<b>Course Assessment for Annual System</b> (%100)	<b>First Term</b>	<b>Midterm Exam</b>	<b>Second Term</b>	<b>Laboratory Work</b>	<b>Final Examination</b>



**Additional  
Information**



## Weekly Schedule for Pharmacology I

week	Theoretical Content	Laboratory Work	Notes
1	General introduction to Pharmacology.		
	General introduction to Pharmacology. 2		
2	Pharmacokinetics. 2		
	Pharmacokinetics. 2		
3	Drug Receptor interaction and Pharmacodynamics 2		
	Drug Receptor interaction and Pharmacodynamics 2		
4	The autonomic nervous system (ANS). 1		
	The autonomic nervous system (ANS). 1		
5	Cholinergic system 2		
	Continued chapters concerning drugs affecting Cholinergic system 4		
6	Adrenergic system. 2		
	Continued chapters concerning drugs affecting Adrenergic system. 4		
7	Principal of antimicrobial therapy 1		
	Principal of antimicrobial therapy 1		
8	$\beta$ - lactam and other cell wall synthesis inhibitor antibiotics 2		



	<b>Continued - <math>\beta</math>- lactam and other cell wall synthesis inhibitor antibiotics 2</b>		
9	<b>Protein synthesis inhibitors 2</b>		
	<b>Protein synthesis inhibitors 2</b>		
10	<b>Quinolones, Folate antagonists, and urinary tract antiseptics 2</b>		
	<b>Continued Quinolones, Folate antagonists, and urinary tract antiseptics 1</b>		
11	<b>Anti-mycobacterium drugs 1</b>		
	<b>Continued Anti-mycobacterium drugs 1</b>		
12	<b>Antifungal drugs. 1</b>		
	<b>Continued- Antifungal drugs.</b>		
13	<b>Antiprotozoal drugs. 1</b>		
14	<b>Anthelmintic drugs 1</b>		
	<b>Continued Anthelmintic drugs</b>		
15	<b>Antiviral drugs. 1</b>		
16			



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Quality Assurance and Academic  
Performance Department



College : Pharmacy  
Department : Pharmacology  
& Toxicology  
Stage: fourth Year

## Course Syllabus for Pharmacology II/ 1<sup>st</sup> semester & pharmacology III / 2<sup>nd</sup> semester

Name of the First Teacher of the Course: Dr.Nada alshawi

Accademic Rank: Dr.Prof.

Degree: Ph.D Pharmacology & Toxicology

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Name of the Second Teacher of the Course: Dr. Ali faris

Accademic Rank: doctor lecturer.

Degree: Ph.D Pharmacology & Toxicology

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<b>Course Title</b>	<b>Pharmacology II</b>				
<b>Academic System</b>	<input checked="" type="checkbox"/> <b>Semester System</b>	<input type="checkbox"/> <b>Annual</b>			
<b>Course Objectives</b>	To introduce the pharmacy students to the general pharmacology of the central nervous system and to the various drug groups used in the treatment of CNS diseases or drugs altering its function. The student will be introduced to the various drugs used in the management of cardiovascular diseases. Moreover the course will cover the drugs affecting the gastrointestinal and respiratory systems.				
<b>Textbooks</b>	<b>Lpincott Pharmacology</b> ➤ ➤ ➤				
<b>Reference Books</b>	➤ ➤ ➤ ➤				
<b>Course Assessment for Semester System (%100)</b>	<b>Theoretical Content Exam</b>	<b>Laboratory work</b>	<b>Quizzes</b>	<b>Project</b>	<b>End Semester Examination</b>
	<b>25%</b>	<b>20%</b>	<b>5%</b>	-----	<b>50%</b>
<b>Course Assessment for Annual System (%100)</b>	<b>First Term</b>	<b>Midterm Exam</b>	<b>Second Term</b>	<b>Laboratory Work</b>	<b>Final Examination</b>





**Additional Information**

## Weekly Schedule for pharmacology II/ 1<sup>st</sup> semester

week	Theoretical Content	Laboratory Work	Notes
1	Introduction to CNS pharmacology.	Routs of drug administration 1	
	CNS stimulants		
2	. Anxiolytic and Hypnotic drugs. 1	Routs of drug administration 2	
	Anxiolytic and Hypnotic 2		
3	Anxiolytic and Hypnotic drugs 3	Onset and duration of drugs (Barbiturates )	
	General and Local Anesthetics		
4	General and Local Anesthetics 2	Absorption and excretion of drugs	
	General and Local Anesthetics 3		
5	Antidepressant drugs.1	Effect of parasympathomimetics on gland secretions	
	Antidepressant drugs.2		
6	Antidepressant drugs.3	Drugs and human eye. 1	
	Antipsychotic		
7	Antipsychotic (neuroleptic) drugs 2	Drugs and human eye. 2	
	Antipsychotic		
8	Antipsychotic (neuroleptic) drugs 2	The effects of drugs on IOP rabbits	
	Opioid analgesics and antagonists		



9	Opioid analgesics and antagonists 2	Evaluation of opioid analgesics	
	Opioid analgesics and antagonists 3		
10	Treatment of neurodegenerative diseases	Evaluation of NSAIDs 1	
	Treatment of neurodegenerative diseases 2		
11	Antiepileptic Drugs	Evaluation of NSAIDs 2	
	. Antiepileptic Drugs 2		
12	. Diuretics.	Evaluation of anti-parkinsonian drugs	
	. Diuretics. 2		
13	The treatment of heart failure (HF).	Evaluation of anti- convulsant drugs	
	The treatment of heart failure (HF).2		
	Antiarrhythmic drugs.		
14	Antiarrhythmic drugs.2	The effects of drugs and their antagonists on isolated rats ileum 1	
	. Antianginal Drugs		
15	Antihypertensive drugs	The effects of drugs and their antagonists on isolated rats ileum 2	
	Antihypertensive drugs 2		
16	Antihypertensive drugs 3		
18	Antihyperlipidemic drugs.		
	Antihyperlipidemic		
19	Gastrointestinal and antiemetic drugs		
	Gastrointestinal and antiemetic drugs 2		
20	Drugs acting on the respiratory system		
	Drugs acting on the respiratory system 2		
21	Drugs acting on the respiratory system 3		
22			



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Performance Department



College : Pharmacy  
Department : Pharmacology  
& Toxicology  
Stage : Fourth Year

## Course Syllabus for Pharmacology III / 2<sup>nd</sup> semester

**Name of the first Teacher of the Course: Ali faris**

**Accademic Rank: Doctor lecturer**

**Degree: Ph.D Pharmacology & Toxicology**

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**Name of the Second Teacher of the Course: Dr. Murtadha M. Al-Shareifi**

**Accademic Rank: Doctor lecturer**

**Degree: Ph.D Pharmacology & Toxicology**

**E-mail: [alshareifi\\_m@yahoo.com](mailto:alshareifi_m@yahoo.com)**

**Name of the Third Teacher of the Course: Dr. Sarmed H. Kathem**

**Accademic Rank: Doctor lecturer**

**Degree: Ph.D Pharmacology & Toxicology**

**Email: [sarmedkathem@yahoo.com](mailto:sarmedkathem@yahoo.com)**



<b>Course Title</b>	<b>Pharmacology III</b>				
<b>Academic System</b>	<input checked="" type="checkbox"/> Semester System	<input type="checkbox"/> hester System			
<b>Course Objectives</b>	To introduce the pharmacy students to various drug groups affecting endocrine systems and their use in correcting abnormalities in the endocrine functions. Moreover the course will cover the drugs used in the management of neoplastic diseases, bone disorders, obesity and erectile dysfunction. Inflammatory agents and the anti-inflammatory drugs will also be covered during this course				
<b>Textbooks</b>	<p><b>Lpincott Pharmacology</b></p> <ul style="list-style-type: none"> <li>➤</li> <li>➤</li> <li>➤</li> <li>➤</li> </ul>				
<b>Reference Books</b>	<ul style="list-style-type: none"> <li>➤</li> <li>➤</li> <li>➤</li> <li>➤</li> </ul>				
<b>Course Assessment for Semester System (%100)</b>	<b>Theoretical Content Exam</b>	<b>Laboratory work</b>	<b>Quizzes</b>	<b>Project</b>	<b>End Semester Examination</b>
	<b>25%</b>	-----	<b>5%</b>		<b>70%</b>
<b>Course Assessment for Annual System (%100)</b>	<b>First Term</b>	<b>Midterm Exam</b>	<b>Second Term</b>	<b>Laboratory Work</b>	<b>Final Examination</b>





**Additional Information**

### Weekly Schedule for pharmacology III / 2<sup>nd</sup> semester

week	Theoretical Content	Laboratory Work	Notes
1	Drugs affecting the blood		
	Drugs affecting the blood 2		
2	Hormones of pituitary gland		
	Hormones of pituitary gland		
3	Drugs affecting thyroid function		
	Insulin & oral hypoglycemic drug		
4	Insulin & oral hypoglycemic drugs 2		
	Hypoglycemic drugs		
5	Corticosteroids		
	Gonadal hormones and their inhibitors		
6	Gonadal hormones and their inhibitors 2		
	Gonadal hormones		
7	Drugs used in obesity 1		
	Drugs used in obesity 1		
8	NSAIDs		
	NSAIDs 2		
9	Drugs used in osteoporosis		
	Drugs used in osteoporosis 2		



10	Drugs used in erectile dysfunction 2		
11	Autacoids 1		
	Continued- Autacoids 2		
12	Cancer 1		
	Cancer 2		
13	Cancer 1		
	Immunosuppressants 1		
14			

