



Course Specification of Anatomy

I. Course Identification and General Information:

1	Course Title	Anatomy				
2	Course Number & Code:	Ph411				
3	Credit hours:	C.H				Total
		Th.	Pr.	Tr.	Seminar.	
		2	-			2
4	Study level/ semester at which this course is offered:	1 st level /1 st semester				
5	Pre –requisite (if any):					
6	Co –requisite (if any):					
7	Program (s) in which the course is offered:	Bachelor of pharmacy				
8	Language of teaching the course:	English				
9	Location of teaching the course:	Faculty of Pharmacy- Sana`a university				
10	Prepared by:	Prof Hassan Al-Shamahy				
11	Date of approval:					

II. Course description:

The general aim of this course is to enable students to become acquainted with the detailed structure and essential function of those parts of the human body necessary for clinical practice, and centered anatomy to equip students to be able to function effectively as part of the general medical health-care team.

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ا.د. محمود البريهي

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ا.م.د. هدى العماد

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III. Intended learning outcomes (ILOs) of the course:

At the end of this course the students should be able to:

1. Recognize Knowledge and understanding terms and planes of gross anatomy.
2. Describe the knowledge and understanding about the structure and essential function of each organ
3. Recall the knowledge about the body systems
4. Name and locate the major arteries and veins of the body and understanding the basic arrangement of the nervous system.
5. Identify proper position and orientation of each organ and structure.
6. Correlate anatomical facts with its major clinical applications.
7. Apply understanding of human anatomy on demonstration of evidence based practice.
8. Develop communication with the internet critically as a source of information about human anatomy.
9. Organize working as a team member in collecting valuable information of evidence based practice.

IV. Intended learning outcomes (ILOs) of the course:

(A) Knowledge and Understanding:

Alignment Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **Knowledge and Understanding.**

Program Intended Learning Outcomes (Sub-PILOs) in: Knowledge and Understanding		Course Intended Learning Outcomes (CILOs) in: Knowledge and Understanding	
After completing this program, students would be able to:		After participating in the course, students would be able to:	
A1-	Recognize the principles of physical, chemical, clinical, social, behavioral, health and pharmaceutical sciences.	a1-	Recognize Knowledge and understanding terms and planes of gross anatomy.
A3-	Describe the general cellular, biochemical and physiological aspects of human body and recognize the pharmacokinetics,	a2-	Describe the knowledge and understanding about the structure and essential function of each organ.
		a3-	Recall the knowledge about the body systems.

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	pharmacodynamics, disease pathophysiology, and pharmacogenetic of therapeutic agents to provide pharmaceutical care and facilitate management of patient's medication, rationalize drug use and overall health needs.	a4-	Name and locate the major arteries and veins of the body and understanding the basic arrangement of the nervous system.
Teaching And Assessment Methods For Achieving Learning Outcomes:			
Alignment Learning Outcomes of Knowledge and Understanding to Teaching and Assessment Methods:			
Course Intended Learning Outcomes (CILOs) in Knowledge and Understanding After participating in the course, students would be able to:		Teaching strategies/methods to be used	Methods of assessment
a1-	Recognize Knowledge and understanding terms and planes of gross anatomy.	Lectures Seminars Discussions	Written Mid & final theoretical exams Quizzes assignment Attendance
a2-	Describe the knowledge and understanding about the structure and essential function of each organ.		
a3-	Recall the knowledge about the body systems.		
a4-	Name and locate the major arteries and veins of the body and understanding the basic arrangement of the nervous system.		

(B) Intellectual Skills:	
Alignment Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Intellectual skills	
Program Intended Learning Outcomes (Sub-PILOs) in Intellectual skills	Course Intended Learning Outcomes (CILOs) of Intellectual Skills
After completing this program, students would be able to:	After participating in the course, students would be able to:

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B1-	Consolidate the chemical, biochemical and physiological principles to construct the pharmacophores of the structure and their effect on the stability, pharmacokinetic and pharmacodynamic profiles of the drug	b1-	Identify proper position and orientation of each organ and structure.
B5-	Interpret the prescriptions, patient and clinical data, Analysis all the encountered pharmaceutical problems and plan the strategies for their solution, to develop the health care.	b2-	Correlate anatomical facts with its major clinical applications.

Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment Learning Outcomes of Intellectual Skills to Teaching Methods and Assessment Methods:

<i>Course Intended Learning Outcomes (CILOs) in Intellectual Skills.</i> After participating in the course, students would be able to:		Teaching strategies/methods to be used.	Methods of assessment
b1-	Identify proper position and orientation of each organ and structure.	Lectures Seminars Discussions	Written Mid & final theoretical exams Quizzes assignment Attendance
b2-	Correlate anatomical facts with its major clinical applications.		

(C) Professional and Practical Skills.

Alignment Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Professional and Practical Skills

Program Intended Learning Outcomes (Sub- PILOs) in Professional and Practical Skills	Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills
After completing this program, students would be able to:	After participating in the course, students would be able to:

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C5-	Conduct research studies and utilize the results in different pharmaceutical fields.	c1-	Apply understanding of human anatomy on demonstration of evidence based practice.
Teaching And Assessment Methods For Achieving Learning Outcomes:			
Alignment Learning Outcomes of Professional and Practical Skills to Teaching and Assessment Methods:			
Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills After participating in the course, students would be able to:		Teaching strategies/methods to be used	Methods of assessment
c1-	Apply understanding of human anatomy on demonstration of evidence based practice.	Lectures Seminars Discussions	Written Mid & final theoretical exams, Quizzes, Attendance Assignment

(D) General / Transferable Skills:			
Alignment Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: General and Transferable skills			
Program Intended Learning Outcomes (PILOs) in General / Transferable skills		Course Intended Learning Outcomes (CILOs) in General / Transferable skills	
After completing this program, students would be able to:		After participating in the course, students would be able to:	
D2-	Employ proper documentation and filing systems in different pharmaceutical fields	d1-	Develop communication with the internet critically as a source of information about human anatomy.
D5-	Apply information and communication technology and working effectively in a team.	d2-	Organize working as a team member in collecting valuable information of evidence based practice.
Teaching And Assessment Methods For Achieving Learning Outcomes:			
Alignment Learning Outcomes of General and Transferable skills to Teaching and Assessment Methods.			

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Course Intended Learning Outcomes (CILOs) in General and Transferable Skills After participating in the course, students would be able to:		Teaching strategies/methods to be used.	Methods of assessment
d1-	Develop communication with the internet critically as a source of information about human anatomy.	Lectures Seminars Discussions	Written Mid & final theoretical exams, Quizzes, assignment Attendance
d2-	Organize working as a team member in collecting valuable information of evidence based practice.		

V. Course Content:

1 – Course Topics/Items:

a – Theoretical Aspect

Order	Topic List / Units	CILOs (symbols)	Number of weeks	Contact hours
1.	Introduction (medical terminology)	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
2.	Skeletal system	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
3.	Joints	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
4.	Muscular System	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
5.	Cardiovascular System	a1, a2, a3, a4, b1, b2 c1, d1,d2	2	4
6.	Mid Exam	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
7.	Lymphatic System	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
8.	Respiratory System	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2

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9.	Digestive System	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
10.	Urinary System	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
11.	Endocrine System	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
12.	Nervous System	a1, a2, a3, a4, b1, b2 c1, d1,d2	2	4
13.	Review	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
14.	Final Exam	a1, a2, a3, a4, b1, b2 c1, d1,d2	1	2
Number of Weeks /and Units Per Semester			16	32

VI. Teaching strategies of the course:

Lectures
Seminars
Discussions

I. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)
1.	Attendance and quizzes	All Weeks	5	5%	a1-3,b1-b2, c1
2.	Homework-assignments	Sporadic through the semester	5	5%	a1,a2, a4, b1-2, c1, d1-2

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3.	Theoretical mid-semester exam	7 th	20	20%	a1, a2, a3, a4, b1, b2 c1, d1,d2
4.	Final Exam (theoretical)	16 th	70	70%	a1, a2, a3, a4, b1, b2 c1, d1,d2
Total			100	100%	

II. Students' Support:

Office Hours/week	Other Procedures (if any)
Two contact hours per week	None

III. Learning Resources:

1- Required Textbook(s) (maximum two).

There is a long list of anatomy books present in the faculty library for the student to choose from. Course notes done by teaching staff.

2- Recommended Books and Reference Materials.

Course notes of Department theoretical books and practical manual (lectures and practical)
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3- Electronic Materials and Web Sites etc.

I. Course Policies (To be determined by Faculty Deanship)

Based on university regulations, the following aspects should be figured out:

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1.	(Class Attendance) :Class Attendance: - Attendance of students is taken at beginning of lecture time. - The allowed absence percentage is 20% without excuse and 30% with acceptable excuse, - When student has been absent for more than 30% of course lectures without acceptable excuse, the student will be prohibited from entering subject the final exam.
2.	(Tardy) :If the student came late to class for 15 minutes, he/she is registered absent but he/she allowed to enter the hall to listen lecture presentation.
3.	(Exam Attendance/Punctuality) :According to examination roles or policies: - If the student is absent in the year works exams, the decision is referred to the teacher whether to allow or to reject according to the offered excuse. - If the student is absent in the final exam with an acceptable excuse, the student would be attended the re-sit exam as 1st trial. - If the student is absent in the final exam without an acceptable excuse, the student would be attended re-sit exam as 2nd trial.
4.	(Assignments & Projects) :According to examination roles or policies: - The student should be attended the final exam at certain time and according to the accredited exam table. - If the student came late after 15 minutes from the exam beginning, the student would be to attend the exam with oral monition of never repeat. - In case of the repeat, the student prevented from entrance and considered absent.
5.	(Cheating) :According to examination roles or policies: - If the student cheated in the year works exams of the course, the student prohibited from entrance the final exam and given zero degree with prevented him from entrance the re-sit exam of this course. - If the student cheated in the final exam of the course, the student prohibited from the cheated course and the followed course and given zero degree in both courses, and prevented him from entrance the re-sit exams of them. - If the cheated course is the last at the exam
	table, the student prohibited from the cheated course and the past course and given zero degree in both courses, and prevented him from entrance the re-sit exams of them. - If the cheating is discovered in subsequent time, the cheated student didn't escape from payment and ordinance is referred to precision committee and the final decision is referred to the collage council. - If the cheating is discovered during the correcting the answered books, the corrector has written a report to the chairman of concerned department for taking available procedure. - The faculty council is able to segregate the student for one academic year in 2nd cheating trial and final segregation from the university after accreditation of university council in 3rd cheating trial.
6.	(Plagiarism) :According to examination roles or policies: Plagiarism means a student plagiarizes the personality of another student. Plagiarism for exam purpose: 1- Both students are prohibited from the plagiarized academic year and all results of them are rejected with prohibition of them from entrance the resit exam. 2- If the plagiarized student is from outside the university, the student is referred to the university police. -Plagiarism for other purposes: 1- Both students are warned as segregation. 2- If the plagiarized student is from outside the university, the student is referred to the university police.
7.	(Other policies) :-The student should be followed the instructions for the exam entrance. - The student should be followed all systems & laws of the university.



Course Plan of Anatomy

I. - Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Prof Hassan AlShamahy	Office Hours					
Location & Telephone No.		SAT	SUN	MON	TUE	WED	THU
E-mail							

II. Course Identification and General Information:					
1-	Course Title:	Anatomy			
2-	Course Number & Code:	Ph411			
3-	Credit hours: 1hrs	C.H			Total
		Th.	Seminar	Pr.	

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ا.د. حسن الشماحي



		2	-	-		2
4-	Study level/year at which this course is offered:	1 st level /1 st semester				
5-	Pre –requisite (if any):					
6-	Co –requisite (if any):					
7-	Program (s) in which the course is offered	Bachelor of Pharmacy				
8-	Language of teaching the course:	English				
9-	System of Study:	Semesters				
10-	Mode of delivery:	Regular				
11-	Location of teaching the course:	Faculty of Pharmacy-Sana'a University				

III. Course description:

The general aim of this course is to enable students to become acquainted with the detailed structure and essential function of those parts of the human body necessary for clinical practice, and centered anatomy to equip students to be able to function effectively as part of the general medical health-care team.

IV. Intended learning outcomes (ILOs) of the course:

At the end of this course the students should be able to:

1. Recognize Knowledge and understanding terms and planes of gross anatomy.
2. Describe the knowledge and understanding about the structure and essential function of each organ
3. Recall the knowledge about the body systems
4. Name and locate the major arteries and veins of the body and understanding the basic arrangement of the nervous system.
5. Identify proper position and orientation of each organ and structure.
6. Correlate anatomical facts with its major clinical applications.
7. Apply understanding of human anatomy on demonstration of evidence based practice.
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a – Theoretical Aspect

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2.	Skeletal system	a1, a2, a3, a4, b1, b2 c1, d1,d2	2	2
3.	Joints	a1, a2, a3, a4, b1, b2 c1, d1,d2	3	2
4.	Muscular System	a1, a2, a3, a4, b1, b2 c1, d1,d2	4	2
5.	Cardiovascular System	a1, a2, a3, a4, b1, b2 c1, d1,d2	5,6	4
6.	Mid Exam	a1, a2, a3, a4, b1, b2 c1, d1,d2	7	2
7.	Lymphatic System	a1, a2, a3, a4, b1, b2 c1, d1,d2	8	2
8.	Respiratory System	a1, a2, a3, a4, b1, b2 c1, d1,d2	9	2
9.	Digestive System	a1, a2, a3, a4, b1, b2 c1, d1,d2	10	2
10.	Urinary System	a1, a2, a3, a4, b1, b2 c1, d1,d2	11	2
11.	Endocrine System	a1, a2, a3, a4, b1, b2 c1, d1,d2	12	2
12.	Nervous System	a1, a2, a3, a4, b1, b2 c1, d1,d2	13,14	4
13.	Review	a1, a2, a3, a4, b1, b2 c1, d1,d2	15	2
14.	Final Exam	a1, a2, a3, a4, b1, b2 c1, d1,d2	16	2

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Number of Weeks /and Units Per Semester	16	32
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VI. Teaching strategies of the course:
Lectures Seminars Discussions

IV. Schedule of Assessment Tasks for Students During the Semester:					
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)
5.	Attendance and quizzes	All Weeks	5	5%	a1-3,b1-b2, c1
6.	Homework-assignments	Sporadic through the semester	5	5%	a1,a2, a4, b1-2, c1, d1-2
7.	Theoretical mid-semester exam	7 th	20	20%	a1, a2, a3, a4, b1, b2 c1, d1,d2
8.	Final Exam (theoretical)	16 th	70	70%	a1, a2, a3, a4, b1, b2 c1, d1,d2
Total			100	100%	

V. Students' Support:	
Office Hours/week	Other Procedures (if any)

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Two contact hours per week	None
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VI. Learning Resources:

1- Required Textbook(s) (maximum two).

There is a long list of anatomy books present in the faculty library for the student to choose from. Course notes done by teaching staff.

2- Recommended Books and Reference Materials.

Course notes of Department theoretical books and practical manual (lectures and practical)
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3- Electronic Materials and Web Sites etc.

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II. Course Policies (To be determined by Faculty Deanship)

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11.	(Assignments & Projects) :According to examination roles or policies: - The student should be attended the final exam at certain time and according to the accredited exam table. - If the student came late after 15 minutes from the exam beginning, the student would be to attend the exam with oral monition of never repeat. - In case of the repeat, the student prevented from entrance and considered absent.
12.	(Cheating) :According to examination roles or policies: - If the student cheated in the year works exams of the course, the student prohibited from entrance the final exam and given zero degree with prevented him from entrance the re-sit exam of this course. - If the student cheated in the final exam of the course, the student prohibited from the cheated course and the followed course and given zero degree in both courses, and prevented him from entrance the re-sit exams of them. - If the cheated course is the last at the exam table, the student prohibited from the cheated course and the past course and given zero degree in both courses, and prevented him from entrance the re-sit exams of them. - If the cheating is discovered in subsequent time, the cheated student didn't escape from payment and ordinance is referred to precision committee and the final decision is referred to the collage council. - If the cheating is discovered during the correcting the answered books, the corrector has written a report to the chairman of concerned department for taking available procedure. - The faculty council is able to segregate the student for one academic year in 2nd cheating trial and final segregation from the university after accreditation of university council in 3rd cheating trial.
13.	(Plagiarism) :According to examination roles or policies: Plagiarism means a student plagiarizes the personality of another student. Plagiarism for exam purpose: 1- Both students are prohibited from the plagiarized academic year and all results of them are rejected with prohibition of them from entrance the resit exam. 2- If the plagiarized student is from outside the university, the student is referred to the university police. -Plagiarism for other purposes: 1- Both students are warned as segregation. 2- If the plagiarized student is from outside the university, the student is referred to the university police.
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