



A brief Course Description

Course Name	Biostatistics		
Course Code	HRS 116		
College	Health and Rehabilitation Sciences		
Department/ Program	Radiological Sciences Department/ Ultrasound Program		
Year / Level:	3 rd year, 5 th level		
Credit Hours	3(2.1.0)		
Contact Hours	Lecture: 2	Lab/Tutorial: 2	Training: 0
Language	English		
Track	College Requirement		
Pre-requisites Course:	HFSS 101-1		
Co-Requests:	None		
Course Objectives:	The course main objective is to qualify students to learn methods in biostatistics and to apply these methods to health related data. In addition, students will learn how to use statistical software, and to interpret outputs generated by the software.		



A brief Course Description

Course Name	Vascular Sonography and Procedures		
Course Code	RUS 321		
College	Health and Rehabilitation Sciences		
Department/ Program	Radiological Sciences Department/ Ultrasound Program		
Year / Level:	3 rd year, 6 th level		
Credit Hours	4(3.1.0)		
Contact Hours	Lecture: 3	Lab/Tutorial: 2	Training: 0
Language	English		
Track	Program Requirement		
Pre-requisites Course:	RUS 221- RUS 313		
Co-Requests:	None		
Course Objectives:	Upon successful completion of this course, the student should be able to recognize the relationship between acoustic principles, hemodynamics, and the sonographic representation of major vessels and blood flow. Describe the essential components of a routine examination protocol of the cerebrovascular, peripheral arterial, peripheral venous, and abdominal vessels.		



A brief Course Description

Course Name	Clinical Practicum II		
Course Code	RUS 322		
College	Health and Rehabilitation Sciences		
Department/ Program	Radiological Sciences Department/ Ultrasound Program		
Year / Level:	3 rd year, 6 th level		
Credit Hours	3(1.0.2)		
Contact Hours	Lecture: 1	Lab/Tutorial: 0	Training: 8
Language	English		
Track	Program Requirement		
Pre-requisites Course:	RUS 311- RUS 314		
Co-Requests:	None		
Course Objectives:	Upon successful completion of this course, the student will be able to gain hands-on clinical and laboratory experience in the settings of the obstetrics and gyne sonography. Sonographic examinations are conducted under direct and indirect supervision. Topics include all the procedures related to the field of obstetrics and gynecology.		



A brief Course Description

Course Name	Clinical Practicum III		
Course Code	RUS 323		
College	Health and Rehabilitation Sciences		
Department/ Program	Radiological Sciences Department/ Ultrasound Program		
Year / Level:	3 rd year, 6 th level		
Credit Hours	2(0.0.2)		
Contact Hours	Lecture: 0	Lab/Tutorial: 0	Training: 8
Language	English		
Track	Program Requirement		
Pre-requisites Course:	RUS 311		
Co-Requests:	None		
Course Objectives:	Upon successful completion of this course, the student will be able to gain hands-on clinical and laboratory experience in the settings of the vascular sonography. Sonographic examinations are conducted under direct and indirect supervision. Topics include all the procedures related to hemodynamics and vascular sonography.		



A brief Course Description

Course Name	Vascular Hemodynamics and Physics		
Course Code	RUS 324		
College	Health and Rehabilitation Sciences		
Department/ Program	Radiological Sciences Department/ Ultrasound Program		
Year / Level:	3 rd year, 6 th level		
Credit Hours	2(1.1.0)		
Contact Hours	Lecture: 1	Lab/Tutorial: 1	Training: 0
Language	English		
Track	Program Requirement		
Pre-requisites Course:	HRS 112 + HRS 113		
Co-Requests:	None		
Course Objectives:	Upon successful completion, the student will be able to: define the basic fluid properties, predict the relationship between vessel diameter and average flow speed from the equation of continuity, practice Bernoulli's law, exam Poiseuille's law for viscous laminar flow, describe the flow characteristics that help to distinguish between normal and abnormal flow. Explain the tissue harmonic physics, imaging applications, protocols, describe Elastography, sonoelastography physics, and there applications in sonography.		



A brief Course Description

Course Name	Patient Care (skills for sonographers)		
Course Code	RUS 325		
College	Health and Rehabilitation Sciences		
Department/ Program	Radiological Sciences Department/ Ultrasound Program		
Year / Level:	3 rd year, 6 th level		
Credit Hours	2(1.0.1)		
Contact Hours	Lecture: 1	Lab/Tutorial: 0	Training: 4
Language	English		
Track	Program Requirement		
Pre-requisites Course:	None		
Co-Requests:	None		
Course Objectives:	By the end of the course, the students should be able to: define the role and responsibilities of health care members at the medical imaging department, practice effective communication skills, explain the dynamics of patient/ technologist interactions, correctly assess patient conditions, demonstrate accepted infection control and general safety practices, respond appropriately to emergency situations and distinguish various patient care devices and explain its function		

جامعة الأميرة
نورة بنت عبدالرحمن
وكالة الجامعة للشؤون التعليمية



الإصدار الأول
محرم ١٤٤٠ هـ