

# **Class Meetings**

## **1. October 28, 2016**

- Spring registration

## **2. December, 2016**

- Semester Break

- Organizing Spring semester

- MCAT prep

- Application time line

## **3. Spring, 2017**

- AMCAS

- Personal Statements

- Dr. Witzburg

# Spring Registration

**This is NOT urgent!!!**

Discuss with your advisor in the next few weeks

Receive advising code

Register on Student Link before semester break

Total credits should be 14-16 (Not 18)

**Required:**

Physiology B	PH731	4 cr (M, W: 2-3:30); F: 2-3:50
Biomed Info	MS640	2 cr (online and live)
Biostats	MS700	2 cr (T: 4-5:50 pm)

*Biostats can be waived if a statistics course was taken within 5 yrs and with a grade of “B” or higher.*

*Form to waive is under Student Forms on GMS website- submit online*

*Note that credits for Stats do not transfer- just waive the requirement*

## **Typical Electives:**

Pharmacology	PM730	4 cr
Pathology	PA600	4 cr
Immunology	PA510	2 cr
Human Body Systems	AN723	2 cr

**Don't forget Rel Med Sci MS972 (2 cr)**

**Updated course schedules will be posted on BI751 BB site**

## Spring Semester 2017

\*Physiology-Some discussions are on M, W

	Monday	Tuesday	Wednesday	Thursday	Friday
9-9:30					
9:30-10					
10-10:30	Pharm Lecture	Immuno	Pharm Lecture	Immuno	Immuno
10:30-11	Pharm Lecture	Immuno	Pharm Lecture	Immuno	Immuno
11-11:30	Pharm Lecture	Immuno	Pharm Lecture	Immuno	Immuno
11:30-12	Pharm Lecture	Immuno	Pharm Lecture	Immuno	Immuno
12-12:30	<b>Biomed</b>				
12:30-1	<b>Biomed</b>				
1-1:30	<b>Biomed</b>	Path Lecture		Path Lecture	Physio Q and A
1:30-2		Path Lecture		Path Lecture	
2-2:30	Physio Lecture	Path Lecture	Physio Lecture	Path Lecture	Physio Discussion
2:30-3	Physio Lecture		Physio Lecture		Physio Discussion
3-3:30	Physio Lecture		Physio Lecture	HBS	Physio Discussion
3:30-4				HBS	Physio Discussion
4-4:30		Biostats		HBS	
4:30-5		Biostats		HBS	
5-5:30		Biostats			
5:30-6		Biostats			

## **Option 1 (most students)**

Physio B (4 cr)

Biomed Info (2 cr)

Biostats (2 cr)- or waive

Elective-Path or Pharm (4 cr)

Elective-HBS or Immuno (2 cr)

Rel Med Sci (2 cr)

Total 14-16 cr

## **Option 2**

Physio B (4 cr)

Biomed Info (2 cr)

Biostats (2 cr)

Path or Pharm (4 cr)

Rel Med Sci (2 cr)

Total 14 cr

## **Option 3 (not recommended)**

Physio B (4 cr)

Biomed Info (2 cr)

Biostats (2 cr)-waived

Path (4 cr)

Pharm (4 cr)

Rel Med Sci (2 cr)

Total 16 cr

## How to choose???

There is no “right” or “easy” course- there are good features of each one

Go with your interests

Do not have to love COT to do well in Path

Do not have to love Biochem to do well in Pharm

Don't listen to rumors-

**May NOT register for both Path and Pharm!**

-if you plan to take both courses, can add second one in Jan

Don't take Biostats just for an “A” if have taken before

**-Few Comments**

**-Student Speakers**



# Biostatistics MS700 2 cr

Time: Tu, 4-5:50 pm

Lecture 1. Statistics and research: Basic concepts and study designs

Lecture 2. Describing data; Measures of central tendency and variability

Lecture 3. The role of probability and probability models

Lecture 4. Estimation of confidence intervals for samples with continuous outcomes

Lecture 5. Hypothesis testing: Two samples (independent or matched) with continuous outcomes (z- or *t*-test)

Lecture 6. Hypothesis testing: More than two samples (independent) with continuous outcomes (*F*-test/ANOVA)

Lecture 7. Hypothesis testing: Factorial and repeated-measures (matched samples) analysis of variance (ANOVA)

Lecture 8. Power analysis

Lecture 9. Correlation and regression

Lecture 10. Regression

Lecture 11. Non-parametric statistics

# **Pharmacology PM 730 4 cr**

## **Time: M, W 10-11:50**

Introduction and Development of Pharmacology

Drug Transport and Absorption Dr. Walsh Ch. 4, 5

Drug Distribution and Elimination Dr. Walsh Ch. 6,7,8

Time-Concentration Relationships Dr. Walsh Ch. 10

Mechanisms of Drug Actions Dr. Gibbs Ch. 3

Biopharmaceutics, Drug Delivery Systems,  
and Generic vs. Proprietary

Principles of Pharmacodynamics Dr. Gibbs Ch. 9

Pharmacology of the Autonomic Nervous System

Population Pharmacology 1: Phenotype,  
Genotype and the Placebo Response

Population Pharmacology 2: Adherence,  
Interactions, the Allergic Response, and  
Mechanisms of Tolerance

# **Pathology PA 600 4 cr**

## **Time: T, Th 1-2:20 pm**

Introduction none Dr. Christensen

Cell injury, adaptation, and death pp 1-28 1 Dr. Joseph

Inflammation I 29-58 3 Dr. Remick

Inflammation II 29-58 Dr. Remick

Tissue Repair 58-73 Dr. O'Brien

Angiogenesis 66-68, 191-192 Dr. Rahimi

Immune System I

Normal Responses and Hypersensitivity Disorders

Immune System II

Pathology of Autoimmune Disease

Genetic Diseases 215-244, 298-301,

Personalized Genetic Testing 215-218, 263-268 Dr.

Hematopathology 407-456 Dr. Joseph

Infectious Diseases 309-326 2 Dr. Mille

Cardiovascular disease I

Atherosclerosis and Ischemic Heart Disease

Cardiovascular disease II

Disorders of vascular flow and infarction 75-98 6 Dr. Pfeifer

Neoplasia I - Classification, staging, grading 161-169,

Neoplasia II - Principles of cancer biology 169-207 Dr. Faller

Neoplasia III - Pathways to colon cancer 592-600 12

# PA510 Immunology

	Date	Time	Place	Lecture	Faculty	Title
Tues	Feb7	10-10:50	R115	L1	dsk	Intro to course / Introduction to the Immune System
		11-11:50	R115	L2	dr	Innate immunity – first response to infection and damaged self
Thurs	Feb 9	10-10:50	R115	L3	sw	Antigen recognition by antibodies and T cell receptors
		11-11:50	R115	L4	sw	B and T cell maturation
Fri	Feb 10	10-10:50	R115	L5	dsk	Antigen capture, transport, T cell activation
		11-11:50	R115	L6	sw	T cell differentiation and effector functions
Tues	Feb14	10-10:50	L109	Disc #1	dsk	Innate Immunity
		11-11:50	L109	Quiz #1	dsk	(L1-4)
Thurs	Feb16	10-10:50	R115	L7	js	B cell activation, proliferation and differentiation in response to antigen
		11-11:50	R115	L8	js	Antibody-mediated effector functions
Fri	Feb17	10-10:50	R115	--	--	Quiz 1 posting, Review / tutor session
		11-11:50	R115	L9	js	Methods, Vaccines, Immunotherapeutics
Tues	Feb21	10-10:50	L109	Quiz #2	dsk	(L5-8, D1)
		11-11:50	L109	Disc #2	dsk	Hepatitis, adaptive immunity
Thurs	Feb 23	10-10:50	R115	L10	dsk	Hypersensitivity
		11-11:50	R115	L11	sw	Immunodeficiencies
Fri	Feb24	10-10:50	R115	--	--	Quiz 2 posting, Tutor/review
		11-11:50	R115	L12	dsk	Mucosal Immunity ( GI)
Tues	Feb 28	10-10:50	L109	Disc#3	dsk	HIV
		11-11:50	R115	L13	dr	Immunological tolerance and autoimmunity
Thurs	Mar2	10-10:50	L109	Quiz#3	dsk	(L9-11, D2)
		11-11:50	R115	L14	dr	Immune responses against tumors, transplants
		2-2:50	L109		--	Quiz 3 posting
SPRING BREAK MAR 6-MAR10						
Tues	Mar14	noon	Exam Center	FINAL EXAM	dsk	(L12-L14,D3 + comprehensive)

# Human Body Systems- Spr 2016

Month	Lect	Day	SCHEDULE OF CLASSES
January	1	21	Body Systems Introduction
	2	28	Back
February	3	4	Thorax
	4	11	Mediastinum, Heart, Cardiac circulation and Imaging
		18	Exam 1
	5	25	Abdomen and viscera I
March	6	3	Abdomen and Viscera II Vascular, Lymphatic, Innervation
	7	10	Pelvis, Skeleton, viscera and Muscles
	8	17	Urogenital System, innervation and circulation
	9	24	Thigh and Legs Bones, Muscles, Hip joint, Knee Joint, Gluteal Region
		31	Exam 2
April	10	7	Upper Limb, shoulder and neck, Brachial Plexus, Arm
	11	14	Elbow Joint, Muscles and forearm
	12	21	Head and Neck, Skull, Musculature, Imaging
	13	28	Central Nervous System, Special senses, cranial nerves and Autonomics
May	14	5	Exam 3

