HOWARD UNIVERSITY

College of Pharmacy
Center of Excellence, Pharmacy Biomedical Preview Program

Coordinator: Emmanuel O. Akala, R.Ph., Ph.D.
Lead Tutor: Mr. Vic Shah

Lectures and Examinations Schedule

WEEK 1: JULY 8 - 12, 2013 (ANATOMY/PHYSIOLOGY)

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00 12:00	**Pharmacy Biomedical Preview (PBP) Program Overview**	Nerve Excitability (Ingram)	Anatomy of the Heart (Collins)	Overview of Blood Vessels (Collins)	A&P Week 1 Review (Ingram/Collins)
12:00 1:00	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)
1:00 4:00	General Cell Biology & Physiology (Ingram)	Organization and Division of the Nervous System & Cranial Nerves: Sensory, Motor, Mixed (Ingram)	Physiology of the Heart (Collins)	Hemodynamics and Blood Pressure (Collins)	**Anatomy/Physiology**: Skeletal Muscle Anatomy (Ingram)
6:00 7:00		**Anatomy/Physiology Quiz 1** (Ingram)		**Anatomy/Physiology Quiz 2** (Collins)	

WEEK 2: JULY 15 - 19, 2013 (ANATOMY/PHYSIOLOGY)

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00 12:00	**A&P Week 1 Final Examination** (Ingram, Collins)	Gastrointestinal System: Basic Anatomy (Ezeonyebuchi)	Anatomy of the Kidneys and Bladder (Ezeonyebuchi)	Physiology of the Kidney Part II (Ezeonyebuchi)	Anatomy/Physiology Week Two Review (Ezeonyebuchi)
12:00 1:00	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)
1:00 4:00	Skeletal Muscle Physiology (Ezeonyebuchi)	Gastrointestinal System: Basic Physiology (Ezeonyebuchi)	Physiology of the Kidney (Ezeonyebuchi)	Physiology of the Bladder & the Role of Some Drugs Affecting the Urinary System (Ezeonyebuchi)	Anatomy/Physiology Week Two Review (Ezeonyebuchi)
6:00 7:00		**Anatomy/Physiology Quiz 3** (Ezeonyebuchi)		**Anatomy/Physiology Quiz 4** (Ezeonyebuchi)	

Lectures and Examinations Schedule Continued

WEEK 3: JULY 22-26, 2013
MICROBIOLOGY

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00 12:00	**A&P Week 2 Final Examination** (Ezeonyebuchi)	Bacterial Cell Wall Morphology; Mechanisms of Pathogenicity (Tadesse)	Gram Negative Infections (Entero, Neisseria, Vibrio) (Ingram)	Overview of Antimicrobial Agents (Ingram)	Microbiology Review (Tadasse/Ingram)
12:00 1:00	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)
1:00 4:00	Bacterial Metabolism, Growth and Genetics (Tadasse)	Gram Positive Infections (Staph, Strep, Clostridium) (Tadasse)	Atypical Infections (Mycoplasma, Mycobacterium, Chlamydia) (Ingram)	Fungal Classification, Structure, Replication, Pathogenicity, Treatment (Ingram)	**Biochemistry**: Overview of Nucleic Acid Chemistry (Ransome)
6:00 7:00		**Microbiology Quiz 1** (Tadasse)		**Microbiology Quiz 2** (Ingram)	

WEEK 4: JULY 29 - AUGUST 2, 2013
BIOCHEMISTRY

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00 12:00	**Microbiology Final Examination** (Tadesse/Ingram)	Overview of the Amino Acids (Ransome)	Introduction to Carbohydrates and Glycolysis (Ofeogbu)	Glycogen Metabolism, Electron Transport/Oxidative Phosphorylation (Ofeogbu)	Biochemistry Review (Ransome/Ofeogbu)
12:00 1:00	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)
1:00 4:00	The Central Dogma: DNA, RNA, Protein Biosynthesis (Ransome)	Basic Concepts in Protein Structure (Ransome)	Gluconeogenesis, TCA Cycle & Pentose Phosphate Pathway (Ofeogbu)	Introduction to Enzymes, Michaelis-Menten Kinetics (Ofeogbu)	**Pharmaceutical Calculations:** The International System of Units (Nwachukwu)
6:00 7:00		**Biochemistry Quiz 1** (Ransome)		**Biochemistry Quiz 2** (Ofeogbu)	

Lectures and Examinations Schedule Continued

WEEK 5: AUGUST 5-9, 2013
PHARMACEUTICAL CALCULATIONS

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00 12:00	**Biochemistry Final Examination** (Ransome/Ofeogbu)	Density, Specific Gravity, and Specific Volume (Nwachukwu)	Electrolyte Solutions: Milliequivalents, Millimoles, and Milliosmoles (Puri)	The Allegation Method (Puri)	Review: Example Problems and their Solutions (Nwachukwu/Puri)
12:00 1:00	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN)	***LUNCH*** (ON YOUR OWN))
1:00 4:00	Reducing and Enlarging Formulas (Nwachukwu)	Percentage, Ratio, and Other Expressions of Concentration (Nwachukwu)	Rate of Flow of Intravenous Fluids (Nwachukwu)	Calculations Review: Example Problems and their Solutions (Nwachukwu/Puri)	**Pharmaceutical Calculations Final Examination** (Nwachukwu/Puri)
6:00 7:00		**Pharmaceutical Calculations Quiz 1** (Nwachukwu)		**Pharmaceutical Calculations Quiz 2** (Puri/Nwachukwu)	***5:00PM Dinner Reception w/COP Administrators, COE Faculty/Staff & Completion of PBP Survey***