Date	Day	Hour	Lecture Topic	Lecturer
Aug-15				
10-Aug	M	8:00	Introduction to Human Function	Shiemke
10-Aug	M	9:00	Water, Buffers and Physiological pH	Wimmer
10-Aug	M	10:00	Amino acids and the peptide bond	Shiemke
11-Aug	T	8:00	Levels of protein structure I	Shiemke
11-Aug	T	9:00	Levels of protein structure II	Shiemke
11-Aug	T	10:00	Biological membrane structure	Shiemke
12-Aug	W	8:00	Introduction to membrane transport	Shiemke
12-Aug	W	9:00	Applications of Membrane Transport	Shiemke
12-Aug	W	10:00	Diffusion and Osmosis	Yu
12-Aug	W	11:00	Problem Based Learning (PBL)	-
13-Aug	Th	8:00	Ionic current & fluxes	Yu
13-Aug	Th	9:00	Oxygen binding proteins: myoglobin and hemoglobin	Wimmer
13-Aug	Th	10:00	Hemoglobin, oxygen transport and blood buffering	Wimmer
13-Aug	Th	11:00	Active Learning & Integration	Shiemke
14-Aug	F	8:00	Fibrous proteins collagen and elastin	Shiemke
14-Aug	F	9:00	Glycoproteins, proteoglycans and extracellular matrix	Shiemke
14-Aug	F	10:00	Membrane potential and Action Potentials	Yu
14-Aug	F	11:00	Active Learning & Integration	Wimmer/Shiemke
17-Aug	M	8:00	Marfan Syndrome (CC: Clinical Correlation)	Wimmer
17-Aug	M	9:00	Enzyme catalysis and kinetics	Hummel
17-Aug	M	10:00	Cardiac Action Potential I	Yu
18-Aug	T	8:00	Cardiac Action Potential II	Yu
18-Aug	T	9:00	Mechanisms of Enzyme Action	Wimmer
18-Aug	T	10:00	Regulating Enzyme Activity	Wimmer
19-Aug	W	8:00	Enzyme inhibition	Wimmer
19-Aug	W	9:00	Therapeutic enzyme inhibitors I	Wimmer
19-Aug	W	10:00	Normal ECG	Yu
19-Aug	W	11:00	PBL	-
20-Aug	Th	8:00	Introduction to nervous system	Goodman
20-Aug	Th	9:00	Therapeutic enzyme inhibitors II	Wimmer
20-Aug	Th	10:00	Blood clotting I	Wimmer
20-Aug	Th	11:00	Active Learning & Integration	Wimmer/Yu
21-Aug	F	8:00	Neuromuscular junction I	Stauber
21-Aug	F	9:00	Neuromuscular junction II	Stauber
21-Aug	F	10:00	Blood clotting II	Wimmer
21-Aug	F	11:00	Active Learning & Integration	Wimmer
24-Aug	M	8:00	Skeletal Muscle I	Stauber
24-Aug	M	9:00	Skeletal Muscle II	Stauber

24-Aug	M	10:00	Blood clotting disorders	Crowell
25-Aug	T	8:00	Introduction to signal transduction	Goodman
25-Aug	T	9:00	Cardiac Muscle I	Stauber
25-Aug	T	10:00	Cardiac Muscle II/Smooth muscle	Stauber
25-Aug	T	11:00	PBL	-
26-Aug	W	8:00	Introduction to the endocrine system	Goodman
26-Aug	W	9:00	Hypothalamus - pituitary	Goodman
26-Aug	W	10:00	Overview of cardiovascular/renal function	Yokota
27-Aug	Th	-	**Study Day (No Classes)**	-
28-Aug	F	8:30	**Examination 1**	-
31-Aug	M	8:00	Chromosome structure I	Sasi
31-Aug	M	9:00	Chromosome structure II	Sasi
31-Aug	M	10:00	Mechanical events in the heart I	Yokota
Sep-15				
1-Sep	T	8:00	DNA replication I	Pugacheva
1-Sep	T	9:00	DNA replication II	Pugacheva
1-Sep	T	10:00	Mechanical events in the heart II	Yokota
2-Sep	W	8:00	Mutation and DNA repair	Pugacheva
2-Sep	W	9:00	Xeroderma pigmentosum; repair defects (CC)	Hummel
2-Sep	W	10:00	Mechanical events in the heart III	Yokota
2-Sep	W	11:00	PBL	-
3-Sep	Th	8:00	Mitosis, meiosis, cell cycle	Sasi
3-Sep	Th	9:00	Modes of Inheritance I	Hummel
3-Sep	Th	10:00	Modes of Inheritance II	Hummel
3-Sep	Th	11:00	Active Learning & Integration	Pugacheva
4-Sep	F	8:00	Transcription	Harris
4-Sep	F	9:00	Population genetics	Hummel
4-Sep	F	10:00	AIDS (CC)	Sheil
4-Sep	F	11:00	Active Learning & Integration	Hummel/Sasi
7-Sep	M	-	Labor Day Recess (No Class)	-
8-Sep	T	8:00	RNA processing: tRNA and rRNA	Harris
8-Sep	T	9:00	mRNA synthesis and processing	Harris
8-Sep	T	10:00	Mechanical events in the heart IV	Yokota
9-Sep	W	8:00	Genetic code and translation	Harris
9-Sep	W	9:00	Mechanism of protein biosynthesis	Harris
9-Sep	W	10:00	Extrinsic Control of the Peripheral Circulation	Yokota
9-Sep	W	11:00	PBL	-
10-Sep	Th	8:00	Methods of cardiac assessment	Yokota
10-Sep	Th	9:00	Protein synthesis; Protein degradation	Harris
10-Sep	Th	10:00	Regulation of gene expression in prokaryotes	Harris
10-Sep	Th	11:00	Active Learning & Integration	Yokota/Harris
11-Sep	F	8:00	Molecular genetics I	Stoilov
11-Sep	F	9:00	Molecular genetics II	Stoilov

11-Sep	F	10:00	Regulation of gene expression in eukaryotes	Harris
11-Sep	F	11:00	Clinical Problem-solving session	Paternostro
14-Sep	M	8:00	ECG I	Rhodes
14-Sep	M	9:00	ECG II	Rhodes
14-Sep	M	10:00	Vascular mechanics and arterial pressure	Yokota
15-Sep	T	8:00	Vascular mechanics and venous return	Yokota
15-Sep	T	9:00	Genetic screening	Hummel
15-Sep	T	10:00	Molecular trafficking and sorting	Harris
16-Sep	W	8:00	Human Genomics: Applications to Medicine (CC)	Hummel
16-Sep	W	9:00	Treatment of Genetic Disease	Narumanchi
16-Sep	W	10:00	Cardiac Dysfunction (CC)	Hull
16-Sep	W	11:00	PBL	-
17-Sep	Th	-	**Study Day (No Class)**	-
18-Sep	F	8:30	**Examination 2**	-
21-Sep	M	8:00	OPEN	-
21-Sep	M	9:00	Cell Cycle Control	Pugacheva
21-Sep	M	10:00	Cancer	Pugacheva
22-Sep	T	8:00	Colon cancer (CC)	Hummel
22-Sep	T	9:00	Integrating cardiac output and venous return	Yokota
22-Sep	T	10:00	Hemodynamics	Yokota
23-Sep	W	8:00	Introduction to Gastrointestinal Physiology 1	Connors
23-Sep	W	9:00	Introduction to Gastrointestinal Physiology 2	Connors
23-Sep	W	10:00	Reflex Control of the Cardiovascular System	Yokota
23-Sep	W	11:00	PBL	-
24-Sep	Th	8:00	Introduction to Gastrointestinal Physiology 3	Connors
24-Sep	Th	9:00	Local Control of the Peripheral Circulation I	Yokota
24-Sep	Th	10:00	Local Control of the Peripheral Circulation II	Yokota
24-Sep	Th	11:00	Active Learning & Integration	Pugacheva/Yokota
25-Sep	F	8:00	Introduction to Gastrointestinal Physiology 4	Connors
25-Sep	F	9:00	Salivation, Mastication, and Swallowing	Connors
25-Sep	F	10:00	Transcapillary exchange	Yokota
25-Sep	F	11:00	Active Learning & Integration	Connors/Yokota
28-Sep	M	8:00	Gastric secretion and motility 1	Connors
28-Sep	M	9:00	Gastric secretion and motility 2	Connors
28-Sep	M	10:00	Special circulations I	Yokota
29-Sep	T	8:00	Integrated Cardiovascular Response	Yokota
29-Sep	T	9:00	Heart Failure - A Summary	Yokota

29-Sep	T	10:00	Biliary secretion and excretion	Connors
30-Sep	W	8:00	Pancreatic exocrine secretion	Rajendran
30-Sep	W	9:00	Fluid compartments I	Yokota
30-Sep	W	10:00	Fluid compartments II	Yokota
30-Sep	W	11:00	PBL	-
Oct-15				
1-Oct	Th	8:00	Nutrient Digestion and Absorption	Rajendran
1-Oct	Th	9:00	Small intestine electrolyte & fluid absorption and secre	Rajendran
1-Oct	Th	10:00	Introduction to Metabolism; Bioenergetics	Shiemke
1-Oct	Th	11:00	Active Learning & Integration	Rajendran
2-Oct	F	8:00	Functions of the large intestine	Rajendran
2-Oct	F	9:00	Fluid compartments III	Yokota
2-Oct	F	10:00	Fluid compartments IV	Yokota
2-Oct	F	11:00	Clinical Problem-solving session	Yokota
5-Oct	M	8:00	Signal Transduction in Metabolism	Shiemke
5-Oct	M	9:00	Renal Anatomy I	Yokota
5-Oct	M	10:00	Renal Anatomy II	Yokota
6-Oct	T	8:00	Glucose uptake and glycolysis	Shiemke
6-Oct	T	9:00	TCA Cycle	Shiemke
6-Oct	T	10:00	Renal hemodynamics	Yokota
7-Oct	W	8:00	Renal clearance	Yokota
7-Oct	W	9:00	Oxidative Phosphorylation I; Electron transport	Shiemke
7-Oct	W	10:00	Oxidative phosphorylation II; ATP Synthesis	Shiemke
7-Oct	W	11:00	PBL	-
8-Oct	Th	-	**Study Day (No Class)**	-
9-Oct	F	8:30	**Examination 3**	-
12-Oct	M	8:00	Metabolic Fates of Pyruvate	Shiemke
12-Oct	M	9:00	Glomerular filtration	Yokota
12-Oct	M	10:00	Tubular reabsorption and secretion	Yokota
13-Oct	T	8:00	Oxygen radicals	Shiemke
13-Oct	T	9:00	Mitochondrial Diseases/ Parkinson's Disease	Shiemke
13-Oct	T	10:00	Renal sodium handling	Yokota
14-Oct	W	8:00	Regulation of sodium excretion	Yokota
14-Oct	W	9:00	Renal Potassium handling	Yokota
14-Oct	W	10:00	Lipid digestion	Salati
14-Oct	W	11:00	PBL	-
15-Oct	Th	8:00	Glycogen synthesis; Pentose shunt	Hillgartner
15-Oct	Th	9:00	Regulation of Carbohydrate Metabolism I	Hillgartner
15-Oct	Th	10:00	Renal urea, Renal concentrating mechanisms	Yokota
15-Oct	Th	11:00	Active Learning & Integration	Shiemke

16-Oct	F	8:00	Renal acid excretion	Yokota
16-Oct	F	9:00	Fatty acid synthesis	Salati
16-Oct	F	10:00	Triacylglycerol synthesis & storage; Production of	Salati
16-Oct	F	11:00	Active Learning & Integration	Yokota
19-Oct	M	8:00	Fatty acid mobilization	Salati
19-Oct	M	9:00	Calcium, phosphate and organic solute handling	Yokota
19-Oct	M	10:00	Renal – CV control of body fluids	Yokota
20-Oct	T	8:00	Gluconeogensis; Glycogen Breakdown	Hillgartner
20-Oct	T	9:00	Fatty acid oxidation and ketone body formation	Salati
20-Oct	T	10:00	Renal failure	Yokota
21-Oct	W	8:00	Regulation of Carbohydrate Metabolism II	Hillgartner
21-Oct	W	9:00	Aerobic & anaerobic metabolism of muscle and tumor	Hillgartner
21-Oct	W	10:00	Phospholipid/Sphingolipid Synthesis	Salati
21-Oct	W	11:00	PBL	-
22-Oct	Th	8:00	Amino acid metabolism 1	Hillgartner
22-Oct	Th	9:00	Prostanoids	Salati
22-Oct	Th	10:00	Cholesterol metabolism	Salati
22-Oct	Th	11:00	Active Learning & Integration	Hillgartner/Salati
23-Oct	F	8:00	Amino acid metabolism 2	Hillgartner
23-Oct	F	9:00	Lipoprotein metabolism I	Salati
23-Oct	F	10:00	Lipoprotein metabolism II	Salati
23-Oct	F	11:00	Clinical Problem-solving session	Paternostro
26-Oct	M	8:00	Chronic renal failure/Volume crises	Schmidt
26-Oct	M	9:00	Biochemistry of Type-1 and Type-2 Diabetes	Salati
26-Oct	M	10:00	Atherosclerosis	Hull
27-Oct	T	8:00	Purine metabolism	Harris
27-Oct	T	9:00	Pyrimidine Metabolism; Deoxyribonucleotide	Harris
27-Oct	T	10:00	Gout	Brick
28-Oct	W	8:00	Molecules derived from amino acids	Hillgartner
28-Oct	W	9:00	Alcohol Metabolism I	Salati
28-Oct	W	10:00	Alcohol metabolism II	Salati
28-Oct	W	11:00	PBL	-
29-Oct	Th	-	**Study Day - NO CLASS**	-
30-Oct	F	8:30	**Examination 4**	-
Nov-15				
2-Nov	M	8:00	Introduction to respiration	Paternostro
2-Nov	M	9:00	Macronutrients I	Salati
2-Nov	M	10:00	Macronutrients II	Salati
3-Nov	T	8:00	Whole Body Energy Metabolism	Hillgartner
3-Nov	T	9:00	Obesity	Hillgartner

3-Nov	T	10:00	Micronutrients	Salati
4-Nov	W	8:00	Respiratory mechanics I	Paternostro
4-Nov	W	9:00	Respiratory mechanics II	Paternostro
4-Nov	W	10:00	Review of Endocrine; Endocrine control of growth	Goodman
4-Nov	W	11:00	PBL	-
5-Nov	Th	8:00	Oxygen Transport	Paternostro
5-Nov	Th	9:00	CO2 Transport and Respiratory Regulation	Paternostro
5-Nov	Th	10:00	Pulmonary Function Tests	Weissman
5-Nov	Th	11:00	Active Learning & Integration	Salati/Hillgartner
6-Nov	F	8:00	Respiratory mechanics & airway physiology, Part 1	Paternostro
6-Nov	F	9:00	Respiratory mechanics & airway physiology, Part 2	Paternostro
6-Nov	F	10:00	Thyroid I	Connors
6-Nov	F	11:00	Active Learning & Integration	Paternostro
9-Nov	M	8:00	Non-ventilatory Lung Functions	Paternostro
9-Nov	M	9:00	Introduction to Acid-Base	Paternostro
9-Nov	M	10:00	Sim Center Pulmonary Physiology Lab (no lecture)	-
10-Nov	T	8:00	Thyroid II	Connors
10-Nov	T	9:00	Acid-base I	Paternostro
10-Nov	T	10:00	Acid-base II	Paternostro
11-Nov	W	8:00	Male Reproduction	Goodman
11-Nov	W	9:00	Adrenal Cortex I	Connors
11-Nov	W	10:00	Teratogens	Hummel
11-Nov	W	11:00	PBL	-
12-Nov	Th	8:00	Adrenal Cortex II	Connors
12-Nov	Th	9:00	Female reproduction I	Goodman
12-Nov	Th	10:00	Female reproduction II	Goodman
12-Nov	Th	11:00	Clinical Problem-solving session	Paternostro
13-Nov	F	8:00	Basic Science of Disorders of the Reproductive Tract	Toffle
13-Nov	F	9:00	Pregnancy I	Goodman
13-Nov	F	10:00	Pregnancy II	Goodman
13-Nov	F	11:00	Active Learning & Integration	Goodman/Connors
16-Nov	M	8:00	Physiology of Bone	Goodman
16-Nov	M	9:00	Regulation of calcium and phosphate	Goodman
16-Nov	M	10:00	Temperature regulation I	Connors
17-Nov	T	8:00	Temperature regulation II	Connors
17-Nov	T	9:00	Adrenal Medulla	Goodman
17-Nov	T	10:00	Fever	Khakoo
18-Nov	W	8:00	Exercise I: Energetics	Stauber
18-Nov	W	9:00	Exercise II: Adaptation	Stauber
18-Nov	W	10:00	Assisted Reproduction Technology	Vernon
18-Nov	W	11:00	PBL	-
19-Nov	Th	-	**Study Day (No Class)**	-

20-Nov	F	8:30	**Examination 5**	-
11/21-11/29	-	-	*THANKSGIVING VACATION*	-
Dec-15				
2-Dec	W	-	**Biochemistry NBME Shelf Exam, 8-11:00**	-
8-Dec	T	-	**Physiology NBME Shelf Exam, 8-11:00**	-