

**Medical Physiology (PHYL 1005)  
Course Schedule  
2011– 2012**

**Activity**  
**LECTURE**  
**QUIZ-Individual & Group Quizzes**  
**REVIEW**

<b>Date</b>	<b>Time</b>	<b>Activity</b>	<b>Topic</b>	<b>Instructor</b>	<b>Room</b>
<b><u>General Concepts II Module</u></b>					
<b><u>Week 1</u></b>					
Sept 13	9:00 9:50	LECT	Course Introduction	Proppe	3.102
Sept 13	10:00 10:50	LECT	Mechanisms & Types of Membrane Transport	Herlihy	3.102
Sept 13	11:00 11:50	LECT	Resting Membrane Potential	Herlihy	3.102
Sept 14	1:00 1:50	LECT	Resting Membrane Potential, Action Potentials	Herlihy	3.102
Sept 14	2:00 2:50	LECT	Action Potentials, Ion Channels	Herlihy	3.102
Sept 15	8:00 8:50		Self-Study	Herlihy	
<b>Sept 16</b>	<b>9:00 11:50</b>	<b>QUIZ</b>	<b>Weekly Quiz #1</b>	<b>Herlihy</b>	<b>3.102/3.104 and MDL</b>
<b>Sept 16</b>	<b>11:00 11:50</b>	<b>REVIEW</b>	<b>Cell Physiology</b>	<b>Herlihy</b>	<b>3.102</b>
<b><u>Week 2</u></b>					
Sept 19	9:00 9:50	LECT	Passive Properties & Action Potential Propagation	Herlihy	3.102
Sept 19	10:00 10:50	LECT	Synaptic Transmission	Herlihy	3.102
Sept 19	4:00 4:50		Self-Study	Herlihy	

Sept 20	10:00 10:50	LECT	Osmosis & Tonicity	Proppe	3.102
Sept 20	11:00 11:50	LECT	Epithelial Transport	Proppe	3.102
<b>Sept 22</b>	<b>9:00 10:50</b>	<b>QUIZ</b>	<b>Weekly Quiz #2</b>	<b>Herlihy/Proppe</b>	<b>3.102/3.104 and MDL</b>
<b>Sept 22</b>	<b>11:00 11:50</b>	<b>REVIEW</b>	<b>Cell Physiology</b>	<b>Herlihy/Proppe</b>	<b>3.102</b>
<b><u>Week 3</u></b>					
Sept 26	10:00 10:50	LECT	Skeletal Muscle: Molec mech., EC-Coupling	Renteria	3.102
Sept 27	10:00 10:50	LECT	Skeletal Muscle: Mechanics	Renteria	3.102
Sept 27	11:00 11:50	LECT	Skeletal Muscle: Energetics, fatigue	Renteria	3.102
Sept 28	10:00 10:50	LECT	Smooth Muscle: Types, Functions	Renteria	3.102
Sept 28	11:00 11:50	LECT	Smooth Muscle: EC Coupling, Mechanics	Renteria	3.102
Sept 28	4:00 4:50		Self Study		
<b>Sept 30</b>	<b>9:00 10.50</b>	<b>QUIZ</b>	<b>Weekly Quiz #3</b>	<b>Renteria</b>	<b>3.102/3.104 and MDL</b>
<b>Sept 30</b>	<b>11:00 11:50</b>	<b>REVIEW</b>	<b>Muscle Physiology</b>	<b>Renteria</b>	<b>3.102</b>
<b><u>Week 4</u></b>					
Oct 3	10:00 10:50	LECT	Principles of Control I: Sensory	Proppe	3.102
Oct 5	10:00 10:50	LECT	Principles of Control II: Motor	Proppe	3.102
Oct 5	11:00 11:50	LECT	Principles of Control III: Control Systems	Proppe	3.102
Oct 6	9:00 9:50		Module Exam Review	Herlihy/Proppe/ Renteria	3.102

**Week 5**

<b>Oct 14</b>	<b>9:00 11:50</b>	<b>EXAM</b>	<b>GC II Module Exam with OBD</b>	<b>Herlihy/Proppe/ Renteria</b>	<b>Auditorium</b>
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**Cardiovascular-Respiratory Module****Week 6**

Oct 17	8:00 8:50		Self Study	Proppe	
Oct 17	9:00 9:50	LECT	CV: Overview/ Governing Principles	Proppe	3.102
Oct 17	10:00 10:50	LECT	CV: Overview/ Governing Principles	Proppe	3.102
Oct 18	8:00 8:50	LECT	Cardiac Electro- physiology I	Proppe	3.102
Oct 18	9:00 9:50	LECT	Cardiac Electro- physiology II	Proppe	3.102
Oct 19	8:00 8:50		Self Study	Proppe	
Oct 19	10:00 10:50	LECT	Cardiac Cycle	Proppe	3.102
Oct 19	11:00 11:50	LECT	Regulation of Cardiac Output I	Proppe	3.102
<b>Oct 21</b>	<b>9:00 10:50</b>	<b>QUIZ</b>	<b>Weekly Quiz # 4</b>	<b>Proppe</b>	<b>Auditorium</b>
<b>Oct 21</b>	<b>11:00 11:50</b>	<b>REVIEW</b>	<b>CV Physiology</b>	<b>Proppe</b>	<b>3.102</b>

**Week 7**

Oct 24	9:00 9:50	LECT	Regulation of Cardiac Output II	Proppe	3.102
Oct 24	10:00 10:50	LECT	Large Artery Function	Proppe	3.102
Oct 24	4:00 4:50		Self Study	Proppe	

Oct 25	10:00 10:50	LECT	Control of Vascular Resistance I	Proppe	3.102
Oct 25	11:00 11:50	LECT	Control of Vascular Resistance II	Proppe	3.102
Oct 26	9:00 9:50		Self Study	Proppe	
Oct 26	10:00 10:50	LECT	Capillary & Lymphatic Function	Proppe	3.102
Oct 26	11:00 11:50	LECT	Venous Function	Proppe	3.102
<b>Oct 28</b>	<b>9:00 10:50</b>	<b>QUIZ</b>	<b>Weekly Quiz #5</b>	<b>Proppe</b>	<b>Auditorium</b>
<b>Oct 28</b>	<b>11:00 11:50</b>	<b>REVIEW</b>	<b>CV Physiology</b>	<b>Proppe</b>	<b>3.102</b>
Oct 28	1:00 1:50	LECT	Integrated CV Function I	Proppe	3.102
Oct 28	2:00 2:50	LECT	Integrated CV Function II	Proppe	3.102
<b><u>Week 8</u></b>					
Oct 31	9:00 9:50	LECT	Integrated CV Function III	Proppe	3.102
Oct 31	10:00 10:50	LECT	Resp: Overview, Lung Volumes	Herlihy	3.102
Nov 1	9:00 9:50	LECT	Resp: Pulmonary Ventilation	Herlihy	3.102
Nov 1	10:00 10:50	LECT	Pulmonary Mechanics I	Herlihy	3.102
Nov 2	10:00 10:50	LECT	Pulmonary Mechanics II	Herlihy	3.102
Nov 2	11:00 11:50	LECT	Pulmonary Gas Exchange	Herlihy	3.102
Nov 3	8:00 8:50		Self Study	Herlihy	
<b>Nov 4</b>	<b>9:00 10:50</b>	<b>QUIZ</b>	<b>Weekly Quiz #6</b>	<b>Proppe/ Herlihy</b>	<b>Auditorium</b>

<b>Nov 4</b>	<b>11:00 11:50</b>	<b>REVIEW</b>	<b>Cardiovascular/ Respiratory Physiology</b>	<b>Proppe/ Herlihy</b>	<b>3.102</b>
<b><u>Week 9</u></b>					
Nov 7	9:00 9:50	LECT	Gas Transport, VA/Q Ratio I	Herlihy	3.102
Nov 7	10:00 10:50	LECT	VA/Q Ratio II	Herlihy	3.102
Nov 8	10:00 10:50	LECT	Control of Respiration	Herlihy	3.102
Nov 8	11:00 11:50	LECT	Hypoxemia/ Integrative Functions	Herlihy	3.102
Nov 8	1:00 1:50		Module Exam Review	Proppe/Herlihy	3.102
Nov 8	3:00 3:50		Self-Study	Herlihy	
<b>Nov 9</b>	<b>9:00 10:50</b>	<b>QUIZ</b>	<b>Weekly Quiz # 7</b>	<b>Herlihy</b>	<b>Auditorium</b>
<b>Nov 9</b>	<b>11:00 11:50</b>	<b>REVIEW</b>	<b>Respiratory Physiology</b>	<b>Herlihy</b>	<b>3.102</b>
<b>Nov 11</b>	<b>1:00 3:50</b>	<b>EXAM</b>	<b>CV- Resp. Module Exam</b>	<b>Proppe/ Herlihy</b>	<b>Auditorium</b>

**GI –Renal Module**

**Week 10**

Nov 17	9:00 9:50	LECT	GI: Functional Overview of GI System	Proppe	3.102
Nov 17	10:00 10:50	LECT	Regulation: Neural and Hormonal	Proppe	3.102
Nov 18	9:00 9:50	LECT	GI Motility I: Esophagus and Stomach	Proppe	3.102
Nov 18	10:00 10:50	LECT	GI Motility II: Small Intestine & Colon	Proppe	3.102
Nov 18	4:00 4:50		Self Study	Proppe	

**Week 11**

Nov 21	9:00 9:50	LECT	Salivary and Gastric Secretions	Proppe	3.102
Nov 21	10:00 10:50	LECT	Pancreatic Secretions & Bile	Proppe	3.102
Nov 21	4:00 4:50		Self Study	Proppe	
Nov 22	10:00 10:50	LECT	Digestion/Absorption of Carbohydrates and Protein	Proppe	3.102
Nov 22	11:00 11:50	LECT	Digestion/Absorption of Lipids	Proppe	3.102

### **Thanksgiving Holiday**

#### **Week 12**

Nov 28	10:00 10:50	LECT	Absorption of Salts and Water	Proppe	3.102
Nov 28	11:00 11:50	LECT	Intestinal Secretion; Diarrhea	Proppe	3.102
Nov 29	10:00 10:50	LECT	Renal: Anatomy and Glomerular filtration I	Stockand	3.102
Nov 29	11:00 11:50	LECT	Glomerular filtration II	Stockand	3.102
<b>Nov 30</b>	<b>9:00 10:50</b>	<b>QUIZ</b>	<b>Weekly Quiz #8</b>	<b>Proppe</b>	<b>Auditorium</b>
<b>Nov 30</b>	<b>11:00 11:50</b>	<b>REVIEW</b>	<b>GI Physiology</b>	<b>Proppe</b>	<b>3.102</b>
Dec 1	8:00 8:50	LECT	Tubular function I	Stockand	3.102
Dec 1	9:00 9:50	LECT	Tubular function II	Stockand	3.102
Dec 1	4:00 4:50		Self Study	Stockand	
Dec 2	11:00 11:50	LECT	Renal Indices I	Stockand	3.102

#### **Week 13**

Dec 5	8:00 8:50		Self Study	Stockand	
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Dec 5	9:00 9:50	LECT	Renal Indices II	Stockand	3.102
Dec 5	10:00 10:50	LECT	NaCl and water balance	Stockand	3.102
Dec 6	8:00 8:50	LECT	Blood Pressure Control	Stockand	3.102
Dec 6	9:00 9:50	LECT	Regulation of K, Mg, Ca, PO <sub>4</sub>	Stockand	3.102
Dec 7	10:00 10:50	LECT	Acid-Base Regulation	Stockand	3.102
Dec 7	11:00 11:50	LECT	Acid-Base Challenges	Stockand	3.102
Dec 7	1:00 1:50		Self Study	Stockand	
<b>Dec 9</b>	<b>9:00 10:50</b>	<b>QUIZ</b>	<b>Weekly Quiz #9</b>	<b>Stockand</b>	<b>Auditorium</b>
<b>Dec 9</b>	<b>11:00 11:50</b>	<b>REVIEW</b>	<b>Renal Physiology</b>	<b>Stockand</b>	<b>3.102</b>
<b><u>Week 14</u></b>					
<b>Dec 12</b>	<b>1:00 3:50</b>	<b>EXAM</b>	<b>GI-Renal Module Exam (with OBD)</b>	<b>Stockand/ Proppe</b>	<b>Auditorium</b>

***Holiday Break***

## Spring Semester, 2012

### Endocrine-Reproductive Module

#### Week 15

Jan 9	10:00 10:50	LECT	Hypothalamic-Pituitary Relationships, ADH	Nelson	3.102
Jan 9	4:00 4:50		Self-Study	Nelson	
Jan 11	10:00 10:50	LECT	Hypothalamic-Pituitary-Thyroid	Nelson	3.102
Jan 12	10:00 10:50	LECT	Adrenal Cortex	Nelson	3.102
Jan 12	11:00 11:50	LECT	Adrenal Cortex and Medulla	Nelson	3.102
<b>Jan 13</b>	<b>9:00 10:50</b>	<b>QUIZ</b>	<b>Weekly Quiz #10</b>	<b>Nelson</b>	<b>Auditorium</b>
<b>Jan 13</b>	<b>11:00 11:50</b>	<b>REVIEW</b>	<b>Endocrine Physiology</b>	<b>Nelson</b>	<b>3.102</b>

#### Week 16

Jan 17	9:00 9:50	LECT	Pancreatic Function I	Nelson	3.102
Jan 17	10:00 10:50	LECT	Pancreatic Function II, Diabetes	Nelson	3.102
Jan 19	9:00 9:50	LECT	Reproductive Physiology I	Nelson	3.102
Jan 19	10:00 10:50	LECT	Reproductive Physiology II	Nelson	3.102
Jan 19	4:00 4:50		Self-Study	Nelson	
<b>Jan 20</b>	<b>9:00 10:50</b>	<b>QUIZ</b>	<b>Weekly Quiz #11</b>	<b>Nelson</b>	<b>Auditorium</b>
<b>Jan 20</b>	<b>11:00 11:50</b>	<b>REVIEW</b>	<b>Endocrine Physiology</b>	<b>Nelson</b>	<b>3.102</b>

**Week 17**

Jan 23	8:00 8:50		Self-Study	Nelson	
Jan 23	9:00 9:50	LECT	Endocrine Function During Aging I	Nelson	3.102
Jan 23	10:00 10:50	LECT	Endocrine Function During Aging II	Nelson	3.102
Jan 25	10:00 10:50	LECT	Body Temperature Regulation	Proppe	3.102
Jan 25	11:00 11:50	LECT	Body Temperature Regulation	Proppe	3.102
Jan 26	10:00 10:50	LECT	Physiology of Age- Related Diseases I	Kellogg	3.102
Jan 26	11:00 11:50	LECT	Physiology of Age- Related Diseases II	Kellogg	3.102

**Week 18**

Jan 31	9:00 9:50		Module Exam Review	Nelson/Proppe	3.102
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**Week 19**

Feb 9	9:00 12:00	EXAM	<b>Endo-Repro Module Exam – with OBD</b>	<b>Nelson/ Proppe/Kellogg</b>	<b>Auditorium</b>
Feb 10	9:00 12:00	EXAM	<b>Physiology USMLE Shelf Exam</b>		<b>Auditorium</b>