ESSENTIALS OF HUMAN PHYSIOLOGY: Q3 and Q4, 2012

Course Directors:
Dr. Lawrence Palmer
Dr. Bernice Grafstein

Course Description:
The course consists of lectures on neuroscience and organ-systems biology, alternating with group activities including student presentations, problem-solving sessions and other exercises.

Texts:
Costanzo, L. *Physiology*, 4th ed. Saunders
Purves et al *Neuroscience*, 4th ed. Sinauer

Schedule:
Mondays and Wednesdays, 1:45 – 3:15 pm LC504

Quarter III:
1/23  skeletal muscle contraction  Gardner
1/25  organization of the nervous system  Grafstein
1/30  nervous system: student presentations  Grafstein
2/1   smooth muscle  Palmer
2/6   heart I: blood pressure and flow  Palmer
2/8   heart I: blood pressure and flow  Palmer
2/13  heart II: cardiac action potential (starts 1:30)  Christini
2/15  heart II: cardiac action potential  Christini
2/22  President’s Day
2/24  TBA
2/27  heart III: cardiac contractility  Hatcher
2/29  heart III: cardiac contractility  Hatcher
3/5   lung I: mechanics  Silver
3/7   lung I: mechanics  Silver
3/12  lung II: gas transport  Andersen
3/14  lung II: gas transport  Andersen
3/19 lung III: control of respiration Grafstein
3/21 lung III: control of respiration Grafstein, Palmer

Quarter IV:

4/9 kidney I: filtration Palmer
4/11 kidney I: filtration Palmer
4/16 kidney II: transport Palmer
4/18 kidney II: transport Palmer
4/23 kidney III: lower urinary tract Herzlinger
4/25 kidney III: lower urinary tract Herzlinger
4/30 immune system I Altan-Bonnet
5/2 immune system II Altan-Bonnet
5/7 immune system III Altan-Bonnet
5/9 nervous system III: Organization of the brain. Grafstein
5/14 nervous system IV: Sensory systems Grafstein
5/16 nervous system V: Motor systems. Grafstein
5/21 nervous system VI: Memory Prusky
5/23 nervous system VII: Student presentations. Grafstein

LGP – 01/03/2012