Anatomy & Physiology of the Pelvis & Urinary System
Short Course (PHSL 5525)

2nd floor, Nils Hasselmo Hall (NHH).
Please Note Room Change!

Primary Faculty:
Mark Cook, PhD, PT
Stephen Katz, PhD

Guest Faculty:
Josh Bodie, MD
Nissrine Nakib, MD
Robert Sweet, MD
John Osborn, PhD

This is a short course on the anatomy and physiology of the pelvis, perineum, and urinary system. It has a strong anatomical bias and uses cadaveric dissection, but the course will also delve into the physiology of the urinary system. Some time will be spent considering common pelvic dysfunction (including incontinence, prolapse, and erectile dysfunction), as well as prostatectomy / hysterectomy, urological pathophysiology, and hypertension.

Cost: Non-Degree Seeking Students: $1,850 (this includes meals, course materials, cadaveric dissection, lockers & use of scrubs, etc.).
U of MN Degree Seeking Students: Tuition (1 credit), Plus a $326 course fee.

Registration Deadline: December 20, 2015 or when the course fills.

For more information, or to proceed with registration, visit our website:
Go to http://physiology.med.umn.edu/short-courses/phsl-5525/index.htm
To register, Click under PHSL 5525 Registration, then determine if you are a Degree or Non-Degree student.
Finally, follow the appropriate directions for Degree or Non-degree Students, or contact Stephen Katz at katzx001@umn.edu or 612.625.9178

DEPARTMENT OF INTEGRATIVE BIOLOGY & PHYSIOLOGY
University of Minnesota Medical School
6-125 Jackson Hall
321 Church Street SE
Minneapolis, MN 55455

See Next Page for Class Schedule / Syllabus
Anatomy & Physiology of the Pelvis and Urinary System

Course Directors: Stephen Katz & Mark Cook

PHSL 5525 Short Course Syllabus and Schedule January 2016
University of Minnesota Medical School, 2nd floor, Nils Hasselmo Hall (NHH).
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Wednesday, 1/13/16
9-10 am lecture: Pelvic Bones, Ligaments and Muscles Mark Cook, PhD
10-11 am lecture: Pelvic Viscera, and Kidneys Mark Cook, PhD
11-12 pm lecture: Basic Renal and Ureter Physiology Stephen Katz, PhD
12-1pm lunch
1-2pm lab: Dissection of Kidneys, Ureters
2-3pm lab: Dissection of Pelvic Viscera
3-4pm lab: Dissection of Pelvic Vessels

Thursday, 1/14/16
9-10 am lecture: Perineum, blood vessels and nerves Mark Cook, PhD
10-11 am lecture: Connective Tissue & Pelvic Floor Mark Cook, PhD
11-12 am lecture: Prostatectomy/ Renal Surgery Robert Sweet, M.D
12-1pm lunch
1-2pm lab: Dissection of Perineum
2-3pm lab: Dissection of Pelvic Nerves
3-4pm lab: Dissection of Pelvic Muscles

Friday, 1/15/16
9-10 am lecture: Pathophysiology of Bones and Stones Stephen Katz, PhD
10-11 am lecture: Urological Issues in Women Nissrine Nakib, M.D.
11-12 pm lecture: An Anatomic Approach to Device Josh Bodie, M.D.
Design in Male Urinary Incontinence and Impotence

12-1pm lunch
1-2pm lecture: Renal Nerve Ablation & Hypertension John Osborn, Ph.D.
2-3pm lab: Dissection & Device Demonstration
3-4pm lab: Grand Rounds

See next page for short syllabus:
Short Syllabus:

Textbook:
No textbook required. The class has an extensive set of notes available to each registered student.

Grading:
Students must attend all lectures and laboratory sessions to pass this course. Participation in cadaveric dissection is expected. Those taking the course for one credit must complete a take-home exam during the Spring Semester. Those taking the course for two credits must complete the take-home exam as well as complete a 10-page paper on a relevant topic (see details below).

Grading Scale:
A: 90-100%
B: 80-89%
C: 70-79%
D: 60-69%
E: less than 60%
Cut-offs may be lowered but cannot be raised.

Details Regarding Paper for the OPTIONAL second credit in PHSL 5525:
DO NOT commit to this option unless you are certain you can do the work. You cannot drop this option without sacrificing all or part of your paid tuition after the official Add/Drop deadlines early in the semester. Make certain you have an advisor and a topic before you select this option.

In the past, some students have regretted taking this option because they did not budget enough time in the semester for writing the paper.

If you take the course for 2 credits, then you must also write a paper comparing the experimental results and interpretation of two recent (published in last 10 years) scientific journal articles. Both articles should be looking at closely related hypotheses about a topic of your own choosing. Pick a topic of interest to you and then perform a computer search to find your scientific journal articles. Narrow your focus as much as possible. Contact Mark Cook or Stephen Katz to and ask them to be your adviser on the paper.

(In special instances, your advisor might allow you to focus on one major paper.) Copies of these journal articles should be turned in to the advisor when your draft paper is submitted. The topic of the paper should be related to some aspect of this course.

The body of the paper should be 10 or more typed double-spaced pages when it is finished. In addition a full bibliography of 3 or more recently published scientific journal articles must accompany the paper. References to these articles should be included in the text at appropriate places. You are not writing a comprehensive review of a broad topic. You are writing an explanation and comparison of a very limited number of scientific articles. Submit a draft of your paper and then respond to any criticisms provided by your faculty advisor, and turn in a final version. The final version is due by May 1, 2015.

The paper will be graded on an A-F basis just as your take-home exam, and would count toward 50% of your 2 credit grade in PHSL 5525.