Introduction

These systems are logically combined because...

– during embryonic development these systems are closely connected,

– some structures continue to have a dual function in the adult (carrying both urinary and reproductive products), and

– many of the organs are located in the pelvic cavity, and so it makes sense to study regional anatomy related to these two systems.
Learning Objectives

1. Identify and describe the locations of the kidneys and other organs of the urinary system.
2. Describe the histology of the organs of the urinary system.
3. Dissect a mammalian kidney and identify the gross anatomical features listed in the lab handout.
4. Identify and describe the locations of the organs of the female and male reproductive systems.
5. Describe the histologic organization of the testes and ovaries.

Assignment (p. 153)

- ADAM dissection of urinary and reproductive systems
- Dissection of the sheep kidney
- Histology of the urinary and reproductive systems
- Models:
  - male and female pelvis
  - torso model
  - urinary system model
ADAM Assignment

- In addition to the ADAM dissection, you may also want to use the figures in Atlas Anatomy

Thursday: Kidney Dissection

- Dissection guide on p. 155
- Labeling exercise on p. 156

Click here for a video introduction to the kidney dissection.
Histology
Some important questions to ask & features to look for:
• Which epithelium lines most urinary organs? Why?
• How can you tell the difference between the ureter and the small intestine based on histology?
• What portions of the ovaries and testes produce gametes? ...produce the reproductive hormones?

Urinary/Reproductive Check-off
• Models:
  – Male pelvis
  – Female pelvis
  – Urinary system
  – Human torso
• Kidney dissection (optional)
Next Week

• Finish-up your check-offs
• Review everything
• Use the study guide on the last page of the manual
• Bring a pencil and a good eraser on Thursday to your practical exam
• Answer sheets and spelling lists will be provided
• Any questions?

Thanks for all of your hard work!