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Notice to Students: Although course syllabi at MSUCOM have a consistent format, vitally important
details differ by course. For this reason, you must read the syllabus thoroughly at the onset of each
course to know what the course will provide and what is expected of you.
Section 1 – Course Information

Course Description
OST 572 is a 3 credit course that provides basic science and clinical information regarding the normal structure and function of the genitourinary system, the pathophysiology of genitourinary system disorders, and the clinical characteristics and epidemiology of these disorders. In addition, the course introduces principles of clinical diagnosis and management of genitourinary disorders.

Course Goals
Upon successful completion of this course, the student will be able to:

1. Describe the macroscopic and microscopic structure of the genitourinary system in health and disease.
2. Describe the role of the kidneys and urinary system in maintaining homeostasis by compensating for disturbances of the normal steady-state.
3. Describe the pathophysiology of disorders of the genitourinary system, including disturbances in the regulation of body fluids, electrolytes, or acid-base balance.
4. Formulate a differential diagnosis when presented with a clinical case involving the genitourinary system.
5. Formulate a plan for the initial assessment and basic clinical management of disorders involving the genitourinary system.

Overview of Course Learning Objectives
Please note that more specific instructional objectives are provided within each lecture or other learning activity of this course.

1. Identify the macroscopic and microscopic components of the kidney and describe their functions in health and disease.
2. Describe the role of the kidneys in maintaining homeostasis by compensating for disturbances of the normal steady-state; explain how this demonstrates the healthy body’s self-regulatory and self-healing capacity within the context of osteopathic principles and practice.
3. Describe the role of the kidney in regulation of body fluids, proteins, and electrolytes.
4. Describe the basic physiology of sodium, potassium, hydrogen ion, and water excretion and differentiate between various causes of hyponatremia, hypernatremia, hypokalemia, and hyperkalemia.
5. Describe the basic physiology of blood pressure regulation, including the role of the kidneys and the renin-angiotensin system.
6. Describe that major epithelial transport mechanisms of various segments of the nephron and indicate which ones are targets of commonly used diuretics.
7. Describe the process of amino acid degradation (catabolism) and importance of the urea cycle.
8. Describe the source of blood urea nitrogen (BUN or “urea nitrogen”) and serum creatinine; explain how each substance is handled by the kidney.
9. Explain the clinical utility of measuring BUN, creatinine, and the BUN/creatinine ratio, and creatinine clearance.
10. Define the Cockcroft-Gault equation and demonstrate how it is used clinically to estimate creatinine clearance.
11. Describe the roles of the kidney, lungs, GI tract, and metabolism in adding or removing acids or bases from body fluids.

12. Analyze and interpret a patient’s arterial blood gases (ABGs) to (a) detect the presence of acidosis or alkalosis (b) discern what primary acid-base disorder is present, and (c) determine whether or not the expected compensation for an acid-base disturbance is taking place.

13. Explain how a urinalysis is performed, describe components of a urinalysis (dipstick tests and microscopic analysis), and interpret abnormal urinalysis findings.

14. Formulate a differential diagnosis (list of possible diagnoses) based on a patient’s history, presenting signs and symptoms, and/or abnormal urinalysis findings; determine what additional information (history, physical exam findings, diagnostic tests) is needed to narrow the list of possible diagnoses.

15. Describe the pathophysiology of various genitourinary disorders that may cause damage to the glomeruli, kidney tubules and interstitium, kidney vasculature, ureters, bladder, or urethra.

16. Describe the clinical significance of proteinuria and provide examples of disorders characterized by proteinuria.

17. Define microscopic hematuria and gross hematuria; formulate a differential diagnosis for various types of hematuria in an adult and in a child.

18. Compare and contrast the terms “nephritic” and “nephrotic” and the disorders that present with one or both of these characteristics in children and in adults.

19. Describe the physiology of water balance and osmolality of body fluids, including the feedback regulation of antidiuretic hormone (ADH) and ADH effects on the kidney and urine osmolality.

20. Describe the pathophysiology of the syndrome of inappropriate ADH secretion (SIADH) and contrast this with the pathophysiology of diabetes insipidus (DI).

21. Describe the pathophysiology of various types of acute kidney injury (AKI).

22. Describe and differentiate between pre-renal causes of altered kidney function, post-renal disorders (obstructive uropathy; urinary tract obstruction), and intrinsic renal diseases.

23. Explain the pathophysiology of chronic kidney disease (CKD), including CKD-associated mineral and bone disorder (renal osteodystrophy), and the rationale for therapeutic interventions.

24. Describe the physiology of micturition and the mechanism of action and side effects of common pharmacologic agents, including diuretics, antibiotics, alpha1 adrenergic antagonists, 5-alpha reductase inhibitors, parasympathomimetics, anticholinergic antispasmodics, hormone manipulation, and herbal therapies.

25. Describe the handling of various drugs by the kidneys, methods of adjusting drug doses in patients with renal insufficiency, mechanisms by which drugs can alter kidney function, mechanisms of renal toxicity caused by various drugs, and drug-drug interactions involving the genitourinary system.

26. Compare and contrast the approach to diagnosis and management of disorders involving the genitourinary system in adults and pediatric patients.

27. Explain the rational use of radiologic studies to assist in the diagnosis of genitourinary tract disease.

28. Formulate a basic management plan for genitourinary disorders that incorporates evidence-based clinical guidelines for health maintenance, disease prevention, pharmacotherapy, and/or other therapeutic modalities.

29. Summarize the clinical presentation, approach to diagnosis, and basic clinical management of the following disorders:
   a. Glomerular diseases
   b. Tubular and interstitial diseases
   c. Renal vascular disorders
d. Cystic diseases of the kidney
e. Benign prostatic enlargement with obstruction
f. Prostate cancer
g. Kidney cancer
h. Testis cancer
i. Bladder cancer
j. Penis cancer
k. Urinary tract calculi
l. Pediatric and adult urinary tract disease
m. Urinary tract infections
n. Acute and chronic prostatitis
o. Sexually transmitted infections
p. Urinary retention
q. Urinary incontinence
r. Male sexual dysfunction
s. Testicular torsion
t. HIV-related renal disease

College Program Objectives
In addition to the above course-specific goals and learning objectives, this preclerkship course also facilitates student progress in attaining the College Program Objectives. Please refer to the complete list provided on the MSUCOM website http://com.msu.edu/About/Accreditation/overview_of_program.htm.

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Email: lkaufman@msu.edu
Address: B311 West Fee Hall, East Lansing

Course Faculty

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<th>Site</th>
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<th>Email</th>
<th>Phone</th>
</tr>
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<tbody>
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Lines of Communication

- For administrative aspects of the Course: contact the lead CA for the course, Alex Seddon (seddonal@msu.edu) or Dr. Laryssa Kaufman (lkaufman@msu.edu).
- For content questions relating to a specific lecture or topic: contact the faculty presenter for that specific portion of the course or your SE MI on-site instructor.
- For absences/missed exams (see excused absence information below)
- Please set your notifications in D2L to immediate to receive posted News announcements. You may choose to receive notifications by email or SMS.

Office Hours

Questions concerning the course may be discussed individually by making an appointment with the Lead Curriculum Assistant (Alex Seddon) or Course Coordinator (see contact information above). Dr. Laryssa Kaufman is available by phone (517-884-3856) or via e-mail (lkaufman@msu.edu) or by appointment.

Course Web Site

The URL for the Course website is: https://d2l.msu.edu
Textbooks and Reference Materials

Required

- **OST 572 Course Pack**

Recommended

- Electronic Medical Books listed by subject can be found at: [http://libguides.lib.msu.edu/medicalebooks](http://libguides.lib.msu.edu/medicalebooks)
- MSU Library Medical Videos Guide: [http://libguides.lib.msu.edu/healthsciencesvideos/medicine](http://libguides.lib.msu.edu/healthsciencesvideos/medicine)

Course-based Academic Support

The course faculty are here to facilitate your learning. The large number of students in this course (about 300) necessitates a degree of formality. Also, since your schedules are very full, we must adhere rigidly to the lecture, small group and lab times assigned to this course. However, within these constraints, the needs of individual students will be accommodated whenever possible. Please feel free to contact the Course Coordinator with any personal issues you may have involving this course.

Additional academic support resources can be accessed here: [MSUCOM Office of Academic Success and Career Planning](http://libguides.lib.msu.edu/healthsciencesvideos/medicine).
Specific Procedures for the Histology Laboratory Access

Locations of histology teaching labs
EL – Room E200 Fee Hall
DMC – Room G031
MUC – Room 211 of the UC-4 Building

At all campus sites, the lab is computer-based; it uses virtual slides (digitized microscope slides) as well as images from other designated web sites. Students will team up (in groups of 2-3) to share the laboratory workstations. At each lab session, you will need your lab manual (contained within the coursepack), your required histology text (Ross and Pawlina) and your iClicker Reef device.

Assigned lab times
For each lab topic in this course, you have been assigned to a specific 2-hour histology lab session (lab section assignments will be posted on the Genitourinary System OST 572 D2L website). Space and instructional support are limited in the histology lab, so it is essential that you attend only the 2-hour lab section to which you have been assigned. Also, answers that you submit during lab Reef iClicker quizzes will earn course credit only if you are attending the lab session to which you are assigned.

Pre-lab preparation
To make your time in histology lab productive, it is essential that you prepare beforehand. For each lab session your Study Guide (course pack) includes detailed, step-by-step instructions, objectives, and study questions. To prepare for a lab session, carefully read the “Introduction” to the session in your Study Guide, and work through the instructions that are entitled “Be sure to review and understand the following.” You should also skim through the detailed directions for the lab session (lab objectives) in order to get an idea of what you will be expected to accomplish during the lab session.

Resources to bring to each laboratory session
- iClicker Reef – In order to receive Individual Readiness Quiz (IRQ) credit, you must personally attend the lab session to which you are assigned, and you must submit answers using your personal iClicker Reef device, which you have web-registered in accordance with directions provided by MSUCOM. IRQ answers submitted in another way (e.g. written on paper) will not be accepted. Having your personal iClicker Reef device registered in your name and in good working order and charged is your responsibility!
- Study Guide (course pack) – This is an essential guide to the structural features you are looking for during lab and to their significance.
- Histology textbook – Both the Study Guide (course pack) and online lab material will refer frequently to pertinent figures in the required histology textbook (Ross and Pawlina), so bring your histology textbook with you to lab!

Histology Lab Individual Readiness Quizzes (IRQs)
As further reinforcement for advanced lab preparation, we will begin each histology lab session with a brief Individual Readiness Quiz (IRQ), to be administered via the iClicker Reef system (the iClicker Reef...
Making the most of your time in histology lab
Being well prepared for each histology lab session (as directed above) and staying for the full lab time will allow you to take full advantage of the opportunity that each lab provides to work collaboratively with your classmates. Lab sessions provide students with excellent opportunities for face-to-face conversations with faculty about lab material, other course content, or ancillary matters of interest. Furthermore, participating in the interactive review of questions (carried out in the last half hour of each lab session) will provide valuable preparation for the integrative questions on course exams.

Protecting the laboratory work stations
- Do not consume food or drink while seated at a computer station.
- Do not touch the computer monitor screens with anything other than the pointers that are supplied. No finger prints! No ball-point pens!
- During histology lab sessions, do not use the lab computers for activities unrelated to lab work (i.e., no personal e-mail, downloads, or web surfing).

Specific Procedures for the Gross Anatomy Laboratory
Welcome back to the gross lab! At all campus sites, the lab will be open Friday March 15, 2019 for access to donors and bucket pelvis & kidney specimens. You will be assigned to a specific lab session (lab section assignments will be posted on the OST 572 D2L website). Space and instructional support are limited in the gross anatomy lab, so it is essential that you attend only the lab section to which you have been assigned. Attendance during the faculty proctored anatomy labs is not required, However, we do highly suggest that you take advantage of the anatomy and clinical faculty while they are present in lab so that you can have your questions answered. Also, the iClicker Reef post lab quiz will only count if you are attending the lab session to which you were assigned.

Pre-lab preparation
To make your time in gross lab productive, it is essential that you skim over the material beforehand. While many of these objectives may readily return from the deep recesses of your brain, some may not. Remember that objectives can be demonstrated on a donor, bucket specimen, cross section or radiograph. Have fun and enjoy your time again with the specimens.

iClicker Reef
An iClicker Reef quiz will be administered during the anatomy laboratory. In order to receive post-lab quiz credit, you must personally attend the lab session to which you are assigned, and you must submit answers using your personal iClicker Reef device, which you have web-registered in accordance with directions provided by MSUCOM. Students who correctly answer more than 50% of the iClicker Reef quiz questions will receive 1 point toward their course grade (see Exams/Assessments section of this syllabus).
Please recall that having your personal iClicker Reef device in good working order (fully charged) is your responsibility! If you miss this quiz (sickness, arriving late, leaving early, previously scheduled appointments, forgetting your iClicker Reef device, your iClicker Reef device breaking, uncharged, religious observances) then the score for the quiz will be a zero. It is understood that you are adults and will make decisions on what is the best use of your time. If attending lab is not one of them, then you forfeit the opportunity to view and take the quiz. **No make-ups are offered for missed iClicker Reef quizzes.**

**Professional Behavior and Dress**
MSU Human Gross Anatomy Lab Rules and Policies will be enforced and professional behavior is expected. Personal electronic devices should be used for educational purposes only. You are to make no attempt to use any electronic device to photograph, video, or otherwise reproduce any image of human anatomical material located in any area of any anatomy laboratory.

In order to have access to the gross labs at EL, MUC and DMC, please come to lab wearing:

- Closed toe shoes
- Long pants/scrub bottoms
- White coat (or scrub set)
- Name tag or MSU ID tag

**Courses begin and end dates**
OST572 begins on March 11, 2019 and ends on April 29, 2019. See addendum for detailed daily course schedule.

**Exams/Assessments**
The successful achievement of learning objectives will require knowledge and skills acquired in other portions of the overall MSUCOM educational program. Students will be expected to apply concepts and vocabulary learned in other courses to problem-solving for exams/assessments in this course. (MSUCOM Program Philosophy)

In order to maintain security of assessments, you may NOT post questions on the discussion board regarding exam questions or quiz questions. Kindly email your questions to the course coordinator.

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<th>Assessments</th>
<th>Projected Points</th>
<th>Material to be Covered</th>
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<tbody>
<tr>
<td>Anatomy Lab Quiz</td>
<td>1</td>
<td>Quiz during the Lab</td>
</tr>
<tr>
<td>Fri. 03/15/19</td>
<td></td>
<td>See schedule for your assigned lab time;</td>
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<tr>
<td>Histology Lab Quiz</td>
<td>2</td>
<td>Quiz at the start of the Lab</td>
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<tr>
<td>Wed., 03/27/19</td>
<td></td>
<td>See schedule for your assigned lab time;</td>
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<td></td>
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<td><strong>BRING REEF iclicker device</strong></td>
</tr>
<tr>
<td>Newborn Screening Quiz</td>
<td>2</td>
<td>Newborn Screening Case Session</td>
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<tr>
<td>Opens Fri 3/29 at 12PM</td>
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<td>Closes Mon 4/1 at 7:30AM</td>
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<tr>
<td>Unit Exam 7</td>
<td>64</td>
<td>Lectures 1-21 and Histology Lab &amp; Case Discussions</td>
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<tr>
<td>Mon. 4/1/19</td>
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<td>8:00 a – 9:45 a</td>
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Assessments | Projected Points | Material to be Covered
---|---|---
**Unit Exam 8**<br>Wed. 04/11/19<br>10:00 a – 11:40 a | 24 | Lectures 22-28 and Case Discussion

**GU Cases**<br>Wed. 4/24/19<br>1-2:50 p or 3:00-4:50 p | 1 | Participation in discussion based on Lectures 29-31 and all prior course materials/activities

**Unit Exam 10**<br>Mon. 4/29/19<br>9:00 a – 11:00 a | 42 | Lectures 29-42 and Case Discussion

GU Cases
To earn 1 point for participating in the GU Cases discussion session, you will need to sign-in on the posted attendance sheet during your assigned group session. It is expected that you will remain for the entire duration of your assigned group session to enhance your understanding of the clinical concepts that have been presented in lectures.

Course Grades
A student’s course grade is determined by the following formula:

\[
\frac{\text{Lab 1} + \text{Lab 2} + \text{D2L Quiz} + \text{Exam 1} + \text{Exam 2} + \text{GU Cases} + \text{Exam 3}}{\text{Total Points Possible}} \times 100\% = \text{Final Percent Score}
\]

- **P-Pass**—means that credit is granted and that the student achieved a level of performance judged to be satisfactory by the instructor. To obtain a “P” grade for this course, a student must obtain 70%.
- **N-No Grade**—means that no credit is granted and that the student did not achieve a level of performance judged to be satisfactory by the instructor. A student who earns an accumulated score below 70% will receive an “N” grade.

All remediation exams for semester 3 are scheduled for Friday May 10 and Saturday May 11, 2019.

- Remediation - Since all of the courses in the MSUCOM curriculum are required, any student receiving an “N” grade must remediate the course. Students receiving an “N” grade in OST572: The remediation format and dates are at the discretion of the course coordinator. Please refer to the remediation policy information provided in Section 2 of this syllabus for information on College requirements and eligibility determination.

Student Evaluation of the Course
We want your feedback on how to improve this course.

- **Informal Feedback**: Feel free to approach the Course Coordinator, Dr. Laryssa Kaufman, or any of the other course faculty with your reactions and suggestions.
- **Formal Evaluation**: In addition to the above, we ask every student in the class to complete formal on-line course evaluation upon conclusion of the course. Student course evaluations are highly recommended. Student feedback provides Course Coordinators with valuable information regarding their performance, the performance of their colleagues, and the quality of the course.
The information gained from these evaluations is used to continuously improve future offerings of this course. Students can access the evaluation system at: MSUCOM Pre-clerkship Evaluation System.

Section 2 – Policies

Academic Honesty and Professionalism

Every student is responsible for their behavior and is expected to adhere to all MSU and MSUCOM policies of academic honesty and professionalism; including the following:

- MSUCOM Code of Professional Ethics
- MSUCOM Statement of Professionalism
- MSU Medical Student Rights and Responsibilities

If there is any instance of academic dishonesty or unprofessionalism discovered by a member of the faculty, administration or staff, it is his or her responsibility to take appropriate action.

Such action may include, but is not limited to: giving a failing grade, referring a student for judicial review, directing the student to the Associate Dean of Student Services, and any other actions outlined in the Medical Students’ Rights and Responsibilities document.

Absences from Mandatory Class Sessions and Examinations/Assessments

It is the responsibility of every student to know and be in compliance with the MSUCOM policy regarding absences from mandatory sessions and examinations.

Requests for an excused absence must be submitted via the student portal.

Computer-Based Testing

It is the responsibility of every student to know and be in compliance with the MSUCOM policy on computer based testing.

REEF Polling Policy

It is the responsibility of every student to know and be in compliance with the REEF Polling (iClicker Cloud) Policy.

No make-up experiences will be provided, and no points will be given, should you forget your device or if it does not work, for whatever reason. If attendance is taken, you will be expected to arrive in class on time and to stay for the duration of the assigned activity.

Remediation Policy

Remediation of an “N” grade will be governed by the MSUCOM Policy for Retention, Promotion and Graduation and by the remediation section of each course syllabus.
Students deemed eligible for remediation will be informed by the registrar’s office. It is the student’s responsibility to ask the course coordinator about the format and expectations of the remediation experience.

**Requests for Special Accommodations**

Michigan State University is committed to providing equal opportunity for participation in all programs, services and activities. Requests for accommodations by persons with disabilities may be made by contacting the Resource Center for Persons with Disabilities at 517-884-RCPD or on the web at [http://www.rcpd.msu.edu/](http://www.rcpd.msu.edu/). Once your eligibility for an accommodation has been determined, you may be issued a Verified Individualized Services and Accommodation (VISA) form. Please present the VISA to Nancy Thoma, thoman@msu.edu, A333 East Fee Hall at the start of the term and/or two weeks prior to the assessment event (test, project, labs, etc.). Requests received after this date will be honored whenever possible.

It is the responsibility of the Student with Accommodations to contact the Course Coordinator and the Curriculum Assistant two weeks prior to the beginning of the semester, when the VISA is obtained prior to the start of the semester. When the VISA is obtained after the start of a semester, the student will notify the Course Coordinator and the Curriculum Assistant two weeks prior to the next scheduled evaluation.

**Addendum: Course Schedule**

Course schedule will be posted as a separate document on the same web page as this syllabus.