

OST 575 – Gastrointestinal System

Summer Semester 4 – 2020

Updated 6/8/2020

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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

Gastrointestinal System is a 6-credit hour course.

Gastrointestinal System, OST 575, is an intensive, integrated, multidisciplinary course designed to provide the basic science and clinical medicine knowledge and framework to understand gastrointestinal health and disease.

Course Goals

Upon completion of OST 575, the student should be able to:

1. Identify the normal structure and function of the gastrointestinal system.
2. Integrate anatomy with clinical presentation of GI diseases.
3. Describe the etiology and pathophysiology of the major disorders of the gastrointestinal system.
4. Explain the pathology of major GI diseases.
5. Identify the clinical presentation of common GI diseases.
6. Summarize basic treatment options for GI conditions.
7. Formulate differential diagnosis for common GI complaints
8. Develop a comprehensive approach to patients with signs and symptoms of gastrointestinal disease.
9. Apply osteopathic principles to GI diseases.

Below are some of the common diseases and symptoms that will be covered this semester in GI system course (it is not complete list of what will be covered)

DISEASES

GERD/ esophageal diseases
PUD
Cholelithiasis/Cholecystitis
Pancreatitis
Hepatitis
GI cancers
Celiac sprue
Lactose intolerance
GI infections
IBD
IBS
Diverticulosis
Hemorrhoids/anal fissures

COMMON GI COMPLAINTS

Difficulty swallowing
Heartburn
Hematemesis
Abdominal pain
Nausea and vomiting
Malabsorption
Melena
Jaundice
Abnormal liver enzymes
Diarrhea
Weight loss
Anemia
Constipation
Hematochezia

Please note that specific instructional objectives are provided within each lecture or other learning activity of this course.

College Program Objectives

In addition to the course-specific goals and learning objectives, this preclerkship course also facilitates student progress in attaining the College Program Level Educational Objectives, which are published in the MSUCOM Student Handbook.

Course Coordinator

(Note - Preferred method of contact is shown in italics)

Name: Catherine Kerschen, D.O

Phone: 517-353-3211

Email: kersche3@msu.edu (preferred method)

Address: 965 Wilson Road, B-311 W. Fee Hall, East Lansing, MI 48824

Co-Course Coordinator

Name: Shawna-Marie Nantais, MS

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Course Faculty

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Curriculum Assistants

Site	Name	Email	Phone
East Lansing	Stephanie Goodrich	goodrics@msu.edu	517-432-5637
DMC	Alysia Gordon	John1329@msu.edu	313-578-9667
MUC	Rose Shubeck	shubeckr@msu.edu	586-226-4788

Lines of Communication

- For administrative aspects of the Course: contact the course coordinator.
- 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 Course Coordinator, *Dr. Kerschen*, by phone at (517) 353-3211 or via e-mail: kersche3@msu.edu The course coordinator is generally available by appointment by Zoom (email Dr. Kerschen for an appointment).

Course Web Site

The URL for the Course website is: <https://d2l.msu.edu>

Textbooks and Reference Materials

Required

- OST575 Course Pack
- Braunwald, Harrison's Principles of Internal Medicine, 20th ed., 2018
ISBN: 9781259644030
- Robbins, Cotran & Kumar, Robbins Pathologic Basis of Disease, 9th ed.,
<http://www.clinicalkey.com> ISBN-13: 978-1455726134
- MH Ross and W Pawlina, Histology: A Text and Atlas, 7th ed. ISBN: 9781451187427
- Chapter 95 Microbiology of the Gastrointestinal Tract, www.ncbi.nlm.nih.gov/books/NBK7670
- Primer/Refresher on the Cast of Characters in Liver Function Tests, Course Pack

Required Readings - links available on the D2L site

- Kwo, P.Y., Joseph K, and Cohen, S.M., ACG Clinical Guideline: Evaluation of Abnormal Liver Chemistries, The American Journal of Gastroenterology, 01/2017, Vol. 112, Issue 1, pp. 18-35
[ACG Clinical Guideline: Evaluation of Abnormal Liver Chemistries](#)
- Lacy, BE., What Gastroenterologists Should Know About Managing IBS [published online March 13, 2019]. Gastroenterology Consultant.
<https://www.consultant360.com/exclusive/gastroenterology/irritable-bowel-syndrome/what-gastroenterologists-should-know-about>

Recommended

- Moore & Dalley, Clinically Oriented Anatomy, 8th ed. ISBN: 9781496347213
- Ryan and Ray, Sherris Medical Microbiology: An Introduction to Infectious Diseases, 5th ed. [ISBN-13: 978-0071604024]
- [Anatomy teaching resources](#) – Lindsey Jenny, PhD, Anatomy lab modules are available in MediaSpace

Course-Based Academic Support

The course faculty are here to facilitate your learning. 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 through MSUCOM Academic and Career Guidance and MSUCOM Personal Counseling.

Courses Begin and End Dates

OST575 begins on June 12, 2020 and ends on July 24, 2020. See addendum for detailed daily course schedule.

Gross Anatomy Review

In order to review the gross anatomy relevant to OST 575, please read the OST 575 Student Lab Guide and Teeth and Gingivae Guide and complete the GI Anatomy Review Self-Study Activity. These documents are all posted on D2L

There will be a 5-question quiz on D2L based on the images in the GI Anatomy Review Self-Study Activity. The quiz will be worth 5 points towards your final grade in OST 575. The quiz will be timed (15 minutes) and you will get one attempt. It must be completed by 1pm on June 13th.

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.

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.

Assessments	Projected Points	Material to be Covered
D2L Anatomy Lab Quiz Open: 6/12/20 at 1PM	5pts	Lab material and modules Open 24 hours. Once opened you will have 15 minutes to complete.
D2L GI Clinical Cases Quiz OPEN: 6/24/20 at 1PM	2pts	GI Clinical cases Open 24 hours. Once opened you will have 15 minutes to complete.
Examination #1 S4UE5 6/29/20	65-75	Lectures and materials presented. 6/14/20 through 6/28/20
D2L Clinical Case Assessments* #1 OPEN: 6/22/20 at 3PM #2 OPEN: 7/10/20 at 3PM #3 OPEN: 7/17/20 at 3PM	4pts	Participation in all 3 required for points. Open 24 hours
Examination #2 S4UE6 7/13/20	75-86	Lectures and materials presented. 7/1/20 through 7/12/20
D2L GI Clinical Cases Liver Disease Quiz OPEN: 7/22/20 at 1PM	2pts	GI Clinical Cases Liver Disease Open 24 hours. Once opened you will have 15 minutes to complete.
Examination #3 S4UE8 7/24/20	63 -73	Lectures and materials presented. 7/15/20 through 7/24/20 All course material may be used to assess knowledge and understanding

NO MAKEUP EXPERIENCES AVAILABLE FOR QUIZZES OR D2L ACTIVITIES/ASSESSMENTS. Make up for exams will be determined based on the excused absence policy.

*To be eligible to receive credit, you must participate in all three D2L Clinical Case Assessments. Partial credit will not be awarded if only one or two assessments are completed. There are no makeup experiences available for this assessment. The intention of these D2L Clinical Case Assessments are to be an educational opportunity and will be graded by participation.

Self-Directed Case-Based Learning in OST 575

It is a goal at MSUCOM to promote self-directed learning to help our students grow into strong, self-directed future clinicians. Self-directed learning is also required by medical school accreditation standards. Self-directed learning is a 4-step process that occurs within an encapsulated timeframe. One of the ways you will this take shape in OST 575 is through the use of self-directed, case-based learning, which unfolds as follows:

1. Self-Assessment of Learning Needs – Student groups are presented with a patient case and a guiding question, such as the most likely diagnosis, the most likely cause, or the most appropriate management plan. They are also asked to be ready to share the rationale for their response. This presents an opportunity for students to reflect on their knowledge related to content learning objectives and to isolate related learning needs.

2. Identification, Analysis, & Synthesis of Information – As students gain a sense of their learning needs, they will work collaboratively to seek out and synthesize information intended to resolve these learning needs in response to the guiding question. This information may include course materials, supplemental learning resources, peer-reviewed research, or other reputable sources of medical knowledge.
3. Appraisal of Information Credibility – Once student groups have synthesized their learning, they have the opportunity to appraise and apply their knowledge in collaborative sessions. Amongst peer learners and their faculty, student groups will share their response to the guiding question along with the related rationale for their response, comparing their conclusions to that of their peers.
4. Feedback on Information-Seeking Skills – Faculty facilitators will aid in providing feedback to students in terms of responses and clinical reasoning/information seeking processes through probing questions, prompts for reflection, and prompts for elaboration among other strategies.

Course Grades

The course faculty determine the threshold for satisfactory performance in each preclerkship course. Your course grade will be determined by the following formula:

$$\begin{aligned} & \text{D2L Anatomy lab quiz} + \text{D2L Clinical Case Assessments} + \text{Exam 1} + \text{Exam 2} + \text{Exam 3} + \\ & \text{D2L GI Clinical Cases Quiz} + \text{D2L GI Clinical Cases Liver Disease Quiz} / \\ & \text{(total points possible)} \times 100\% \\ & = \text{Final Percent Score} \end{aligned}$$

- **P-Pass**—means that you have achieved a satisfactory level of performance and will receive credit for this course. To obtain a “P” grade for this course, you must earn a final percent scores of 70%.
- **N-No Grade**—means that you have not achieved a satisfactory level of performance and no credit will be granted for this course. If you earn a final percent score below 70%, you will receive an “N” grade.
- **Remediation** – If you receive an “N” grade and meet the criteria below, you will be eligible to attempt remediation:
 - Earn a final percent score in the course of 62% or greater

The remediation opportunity for this course will be by examination. Passing is 70%.

All remediation exams for semester 4 are scheduled for Thursday, August 6 or Friday, August 7. Refer to the remediation policy information provided in Section 2 of this syllabus for more information.

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. Kerschen, 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 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

Please refer to the [MSUCOM Student Handbook](#) for these and other 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, as outlined in the MSUCOM Student Handbook and the MSU Medical Student Rights and Responsibilities. These documents may be found on the MSUCOM website. Additional guidance on academic integrity may be found on the MSU Ombudsperson’s website at <https://ombud.msu.edu/sites/default/files/content/Academic-Integrity-at-MSU-updated-August-2017.pdf>

Incidents of academic dishonesty or professional misconduct will be addressed by the faculty, administration or staff; 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 Medical Education, evaluation by the Committee on Student Evaluation, and other actions outlined in the Medical Student Rights and Responsibilities document.

Types of Class Sessions

MSUCOM designates lectures and other class sessions by their delivery method. While additional terms may be used in a specific course, the following will provide general guidance to the type of session:

- Live or livestream lecture:
- Online Lecture:
- Webinar:
- Lab:

Changes to Course Schedule or Requirements

Due to external circumstances, the course requirements published in the course syllabus and/or course schedule may be subject to change. Timely notification Communication regarding changes will be provided to enrolled students via the course D2L site and/or email. Any changes made will consider the MSU Code of Teaching Responsibility and the MSU Medical Students Rights and Responsibilities.

Mandatory and Optional Class Session

All lectures and other class sessions are considered to be integral to the course, and students are expected to attend, view, or participate in each session. Some sessions are designated as “mandatory” in that attendance at the session on the scheduled date and time is required. Depending on the course, a student may earn points for attending or participating in a mandatory session or may lose points for failing to attend or participate. Availability of make-up points for missed sessions is at the discretion of the course coordinator. Optional class sessions are offered by faculty to assist students in learning or reviewing course content.

Absences from Mandatory and Examinations/Assessments

It is the responsibility of the student to know which class sessions are deemed as mandatory and comply with the MSUCOM policy regarding absences from mandatory sessions and examinations. This policy may be found in the MSUCOM Student Handbook on the MSUCOM website. Requests for an excused absence must be submitted via the [student portal](#).

Computer-Based Testing

It is the responsibility of each student to know and comply with the MSUCOM policy on computer-based testing. This policy may be found in the MSUCOM Student Handbook on the MSUCOM website.

Administration of quizzes, examinations, and other assessments may be self-proctored, virtual proctored, or classroom proctored. Regardless of the proctoring method, you are expected to take the exam in a quiet, private setting. Just like in a proctored exam, you are not to access notes, textbooks, references, your phone, or other materials, and you are not to interact with fellow students or others. Remember that integrity is defined as what you do when no one is looking.

You are also expected to not record, photograph, take screen shots, make notes of, or otherwise attempt to make a copy of any exam item for any purpose, including your personal use. A student who is discovered to have cheated or breached exam security will be subject to formal disciplinary action, up to and including dismissal from MSUCOM.

If you have concerns or evidence of an exam security breach on this or any exam, you may report that to an MSUCOM administrator or through the online concern form.

Medical Student Rights and Responsibilities

If problems arise between instructor and student, both should attempt to resolve them by informal, direct discussions. If the problems remain unsolved, the Associate Dean for Medical Education and/or the MSU Ombudsperson may be consulted. The MSU Medical Student Rights and Responsibilities (MSRR) document defines processes for additional steps, including submission of a formal grievance. The MSSR may be found in the MSUCOM Student Handbook and online at splife.studentlife.msu.edu.

REEF Polling (iClicker Cloud) Policy

It is your responsibility to know and comply with the Reef Polling (iClicker Cloud) Policy. This policy may be found in the MSUCOM Student Handbook. If you forget your device or if it does not work, for whatever reason, no make-up experiences will be provided, and no points will be given.

If Reef Polling is used to take attendance for an on-campus event, you will be expected to arrive to the physical location on time and to stay for the duration of the assigned activity. If Reef Polling is used to take attendance for an online event, you will be expected to start the session at the scheduled time and participate for the duration of the assigned activity.

As a matter of professionalism, please note that under no circumstances should you provide access to their iClicker Reef account to another student by sharing your device and/or account login, nor should a

you accept another student's device or login credentials to access Reef Polling on their behalf. Answering questions or checking in for attendance on behalf of another student by using their device or account is considered to be academic dishonesty and may result in disciplinary action up to and including dismissal from the college.

Remediation

The MSUCOM Policy for Retention, Promotion and Graduation requires successful completion of each required course to progress in the curriculum. If you receive an "N" grade in a course, that grade will be recorded on your official transcript; you must meet the course requirement by successfully remediating or repeating the course.

Eligibility to attempt remediation of the course is determined by criteria described in the "Course Grades" section of the syllabus. If you are not eligible to attempt remediation, or if you fail the remediation, you must retake the course, provided you are eligible to continue in the program as determined by the Committee on Student Evaluation.

Student Safety and Wellbeing

The MSUCOM website and Student Handbook provide information on student safety, campus security, access to medical care and counseling services, and to policies on injuries and exposures. If a student has an injury or acute illness on campus, an incident report should be completed. The form is available on the MSUCOM intranet or from Academic Programs.

Requests for 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 (RCPD) at 517-884-7273 or online at rcpd.msu.edu. Once eligibility for an accommodation has been determined, you may be issued a Verified Individualized Services and Accommodation (VISA) form. Each VISA includes an expiration date; to request an accommodation, you must have an active VISA. You may work with RCPD to renew a VISA.

During the preclerkship curriculum, the college will help to coordinate accommodations for additional testing time. Provide your VISA to Nancy Thoma, thoman@msu.edu, A333 East Fee Hall at the start of the term and/or at least two weeks prior to the assessment event (test, project, labs, etc.). Requests for accommodations received with less notice will be honored whenever possible. You may choose whether or not you wish to use accommodations for a particular event. For other accommodations, you may also review your VISA with the course coordinator and curriculum assistant assigned to that course.

Title IX Notifications

Michigan State University is committed to fostering a culture of caring and respect that is free of relationship violence and sexual misconduct, and to ensuring that all affected individuals have access to services. For information on reporting options, confidential advocacy and support resources, university policies and procedures, or how to make a difference on campus, visit the Title IX website at titleix.msu.edu.

Limits to confidentiality. Essays, journals, and other materials submitted for this class are generally considered confidential pursuant to the University's student record policies. However, students should be aware that University employees, including instructors, may not be able to maintain confidentiality when it conflicts with their responsibility to report certain issues to protect the health and safety of MSU community members and others. Instructors must report the following information to other University offices (including the Department of Police and Public Safety):

- Suspected child abuse/neglect, even if this maltreatment happened when you were a child;
- Allegations of sexual assault, relationship violence, stalking, or sexual harassment; and
- Credible threats of harm to oneself or to others.

These reports may trigger contact from a campus official who will want to talk with you about the incident that you have shared. In almost all cases, it will be your decision whether you wish to speak with that individual. If you would like to talk about these events in a more confidential setting, you are encouraged to make an appointment with the MSU Counseling and Psychiatric Services.

Addendum: Course Schedule

Course schedule for the current semester will be posted to D2L. Changes to the course schedule will be noted on the class academic calendar ("Google calendar") and communicated to students via D2L and/or email. The schedule for the most recent offering of this course will be posted on the MSUCOM website under Current Students/Preclerkship Curriculum.