

**OST 576 – Integumentary System**

Summer Semester 4 - 2023

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**Notice to Students:** Although course syllabi at MSUCOM have a consistent format, 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

The Integumentary System is a 2-credit hour course.

This course will be case-based and clinical. It will have both team and individual assessments.

Approximately one third of primary care visits include a skin complaint. No matter what field of medicine you embark upon, you will have patients, family members, and friends asking you about rashes and skin lesions. Learning proper description and diagnosis of these skin conditions will be paramount. Upon completion of this course, you should be very comfortable discussing and developing differential diagnoses for skin disorders.

### Measurable Course Objectives

The American Osteopathic Association has identified osteopathic core competencies (OCC) essential for practice as a future osteopathic physician ([reference](#)). These are embedded throughout programmatic objectives and curriculum. The curricular structure also encourages proficiency in the Core Entrustable Professional Activities (EPAs) for Entering Residency as defined by the Association of American Medical Colleges to help build toward that future phase of the journey toward medical practice ([reference](#)). By the end of this specific course, learners should be able to achieve the following objectives within each competency domain indicated:

#### Medical Knowledge

1. Explore common presentations related to the integumentary system that intersect with clinical disciplines. (*Clinical Science - Dermatology, Clinical Science - Pathology, Clinical Science - Family, Clinical Science - Internal, Clinical Science - Emergency, Clinical Science - Preventive/Occupational, Clinical Science - General Surgery, etc.*)
2. Examine the physiologic basis of health and the pathophysiologic basis of disease through selected integumentary clinical presentations, such as: skin damage and emergencies, hypersensitivities and autoimmune disorders, infections and infestations, growths and tumors, etc. (*Biomedical Science - Pathology/Pathophysiology*)
3. Specify pathogen/host interactions that can affect the maintenance of integumentary health (*S. aureus,  $\beta$ -hemolytic streptococci, coryneform bacteria, s. pyogenes, etc.*) along with immune responses at the organismal, systemic, tissue, and cellular levels. (*Biomedical Science - Microbiology/Immunology*).

#### Patient Care and Procedural Skills

1. Practice gathering accurate, essential data from all sources, including the patient, secondary sources, medical records, and physical examination (including osteopathic structural examination) for selected integumentary clinical presentations. (*Data Gathering - EPA 1*)

2. Recommend and interpret common diagnostic and screening tests related to the assessment of integumentary disorders (*prick testing, patch testing, biopsy, scraping, cultures, diascopy, etc.*) using evidence-based and cost-effective principles. (*Diagnostic Testing - EPA 3*)
3. Practice formulating a differential diagnosis for selected integumentary clinical presentations, prioritizing diagnoses appropriately based on the patient evaluation and epidemiologic data. (*Differential Diagnosis - EPA 2*)
4. Practice developing an evidence-based, cost-effective, patient-centered care plan to assess and manage selected integumentary clinical presentation such as skin damage and emergencies, hypersensitivities and autoimmune disorders, infections and infestations, growths and tumors, etc. (*Treatment/Management - EPA 4*).

## Professional Development and Reflection Skills

Additionally, the American Osteopathic Association indicates several other competencies on which professional development and reflection across time will foster effective medical practice. These include the ability to work collaboratively as part of an interprofessional team; the maintenance of an inquisitive and scientific approach to learning and medical practice; and the adoption of self-direction in lifelong learning and clinical decision-making. This course will contribute to the development of these longitudinal competencies or skills as indicated:

### Self-Directed and Lifelong Learning

Self-directed learning is a 4-step process that occurs within an encapsulated timeframe. The goal of self-directed learning is to help foster self-direction in your lifelong learning and clinical decision-making. This course includes the steps of self-directed learning as follows:

1. **Self-Assessment of Learning Needs** – Units begin with the presentation of learning objectives, providing opportunities to engage in guided self-study with related learning resources such as online visual tours and course pack material. Students are encouraged to reflect upon their knowledge, skills, and comfort related to learning objectives, identifying related learning needs, as they prepare for later formative assessment activities.
2. **Identification, Analysis, & Synthesis of Information** – As students gain a sense of their learning needs, they are provided opportunities to resolve these needs through practice questions and communication with their peers and faculty.
3. **Appraisal of Information Source Credibility** – Once students have synthesized their knowledge from learning activities, they have the opportunity to appraise and apply their knowledge in formative assessment through REEF poll questions.
4. **Feedback on Information-Seeking Skills** – Faculty will provide feedback to students on their learning based on the results of REEF poll responses. Additionally, application activities will provide further opportunity to apply, clarify, and review learning with the aid of peer and faculty feedback. Groups often have a bonus opportunity to present their learning on related questions for further feedback in live sessions.

## Course Director

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

Name: Michelle Gallagher, D.O.

Phone: 517-487-0128

Email: [docmlg@msu.edu](mailto:docmlg@msu.edu) (preferred method)

Address: 545 West Fee Hall, 909 Wilson Rd. East Lansing, MI 48824

## Course Faculty

Name	Email	Phone	Site
Stephen DiCarlo, Ph.D.	<a href="mailto:dicarlos@msu.edu">dicarlos@msu.edu</a>	517-884-5051	EL
Michelle Gallagher, D.O.	<a href="mailto:docmlg@msu.edu">docmlg@msu.edu</a>	517-487-0128	EL
Mary Hughes, D.O.	<a href="mailto:hughesm@msu.edu">hughesm@msu.edu</a>	517-353-3211	EL
Frances Kennedy, DVM, MS	<a href="mailto:kennedyf@msu.edu">kennedyf@msu.edu</a>	517-432-0467	EL
Paul Kowalski, M.D.	<a href="mailto:pauljk@msu.edu">pauljk@msu.edu</a>	517-353-3453	EL
Carrie Nazaroff, Ph.D.	<a href="mailto:tatarcar@msu.edu">tatarcar@msu.edu</a>	586-263-6743	MUC
Gregory Piro, D.O.	<a href="mailto:drppiroy@yahoo.com">drppiroy@yahoo.com</a>	517-545-2300	EL
Janice Schwartz, Ph.D.	<a href="mailto:schwa317@msu.edu">schwa317@msu.edu</a>	313-578-9671	DMC
John Taylor, Ph.D.	<a href="mailto:tayl3736@msu.edu">tayl3736@msu.edu</a>	517-263-6066	MUC
H. Stephen Williams, M.D., M.P.H.	Refer questions to Dr. Gallagher: <a href="mailto:docmlg@msu.edu">docmlg@msu.edu</a>	N/A	Recordings only

## Curriculum Assistants

Site	Name	Email	Phone
East Lansing (Lead)	Becky Brandt	<a href="mailto:brandtb2@msu.edu">brandtb2@msu.edu</a>	517-884-3880
DMC	Smita Deb	<a href="mailto:debsmita@msu.edu">debsmita@msu.edu</a>	517-884-8670
MUC	D'Ann Zona	<a href="mailto:zonadann@msu.edu">zonadann@msu.edu</a>	586-226-4788

## Lines of Communication

- For administrative aspects of the Course: contact the course director.
- 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. Michelle Gallagher, DO*, located at 545 West Fee Hall, East Lansing, MI 48824, by phone at 517-487-0128 or via e-mail: [docmlg@msu.edu](mailto:docmlg@msu.edu). The course coordinator is available by email or by appointment.

## Course Web Site

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

## Textbooks and Reference Materials

### Required

- OST576 Course pack
- Visual Tours on D2L
- VisualDx: [www.visualdx.com/learnderm](http://www.visualdx.com/learnderm)
  - This entire learning module is required (the skin exam, lesion identification, body location and distribution, recognizing configurations, and morphologic variation.)
- American Academy of Dermatology Basic Dermatology Curriculum: [www.aad.org/education/basic-derm-curriculum](http://www.aad.org/education/basic-derm-curriculum)
  - You will be expected to know the topics in these modules addressed in your course pack.
- H W. Pawlina, M. Ross, Histology: A Text and Atlas, With Correlated Cell and Molecular Biology, 8th ed., 2020, Wolters Kluwer [ISBN 978-1- 4963-8342-6]. [Digital copy of Histology, 8th edition](#)

### Recommended

- [www.visualdx.com](http://www.visualdx.com)
- [www.emedicine.medscape.com/dermatology](http://www.emedicine.medscape.com/dermatology)
- [www.dermnetz.org/topics](http://www.dermnetz.org/topics)

## Course-based Academic Support

The course faculty are here to facilitate your learning. Please feel free to contact the Course Director 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.

## Course Begin and End Dates

OST576 begins on May 15, 2023 and ends on June 16, 2023. See addendum for detailed daily course schedule.

## Histology

### Specific Procedures for the Histology Laboratory

The Histology Lab Session will be held at each campus in the following locations:

EL – Room E200 Fee Hall

DMC – Room G031

MUC – Room 211 of the UC-4 Building

Students will team up in groups of 2-3 to share the laboratory workstations. You will need your Histology Lab Manual (contained within the course pack), your required histology text (Pawlina) and your device for REEF polling. The Lab Session is computer-based. The Histology Lab Website uses virtual slides (digitized microscope slides), Image Series obtained from virtual slides, and images from other

designated sources. The Histology Lab Website is available at any time via your personal computer. The website address needed to access the Histology Lab Website is posted on the course D2L site.

### **Individual Readiness Quiz**

The Histology Laboratory Session will begin with a brief Individual Readiness Quiz, which will be administered via REEF polling. This quiz will consist of four multiple choice questions drawn from the preparatory material indicated in the section entitled "In preparation for the pre-lab quiz, be sure to study the following in your Pawlina textbook" within the "Preparation" section of the Histology Lab Manual. No make-ups will be offered for this quiz. See the "**iClicker Student Policy**" of this syllabus for more information.

### **Histology Lab Schedule**

Your College will assign you to a specific 1 hour, 50 minute lab section. Your lab section assignment will be posted on the course D2L site. You must attend only the lab section you have been assigned to. Please consult the "**Absences from Mandatory and Examinations/Assessments**" section of this Syllabus for information regarding missing a Lab Session due to illness or emergency. The process for seeking a change in your lab section assignment is to contact your site Curriculum Assistants or complete the [Request for a Group Change form](#).

### **Preparation for the Laboratory Session**

To make your time during the Histology Lab Session productive, it is essential that you prepare beforehand. The Lab Manual, found in your coursepack, includes an "Introduction" to the Lab Session and a specific "Preparation" assignment for you to work through before the Lab Session. You should also skim through the detailed directions within the Lab Manual to obtain some idea of what will be covered during the Lab Session.

### **Resources to have available during the Laboratory Session**

Your course pack contains a Histology Lab Manual, which is the essential guide to the structural features you will be examining during the Lab Session, and to their significance. Both the Lab Manual and the Histology Lab Website will frequently refer to pertinent material in the required histology textbook (Pawlina); so you should have that textbook available during the Lab Session. You will also need your device for Reef polling.

### **Self-Directed Flipped Learning in OST576**

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 see self-directed learning take shape in OST 576 is through self-directed flipped learning activities that occur in the following sequence:

1. Self-Assessment of Learning Needs – Units begin with the presentation of learning objectives, providing opportunities to engage in guided self-study with related learning resources such as online visual tours and course pack material. Students are encouraged to reflect upon their

knowledge, skills, and comfort related to learning objectives, identifying related learning needs, as they prepare for later formative assessment activities.

2. Identification, Analysis, & Synthesis of Information – As students gain a sense of their learning needs, they are provided opportunities to resolve these needs through practice questions and communication with their peers and faculty.
3. Appraisal of Information Credibility – Once students have synthesized their knowledge from learning activities, they have the opportunity to appraise and apply their knowledge in formative assessment through REEF poll questions.

Feedback on Information-Seeking Skills – Faculty will provide feedback to students on their learning based on the results of REEF poll responses. Additionally, application activities will provide further opportunity to apply, clarify.

### 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.

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 director.

Assessments	Projected Points	Material to be Covered
<b>Team Derm Clinic Questions:</b> on D2L (15 pts. per week)	<b>60</b>	In-class information and study outlines/course pack
<b>Individual Final Examination</b>	<b>60</b>	Cumulative
<b>Team Derm Clinic Verbal Answer:</b> one audio answer will be randomly graded from a weekly team dermatology clinic quiz	<b>10</b>	In-class information and study outlines/questions
<b>Histology Lab Quiz</b>	<b>2</b>	From histology Prep work
<b>COMbank Board Questions Quiz</b>	<b>5</b>	Board-relevant dermatology topics
<b>iClicker Questions:</b> offered at the start of each class session for BONUS points. Must receive an average score of 80% or higher on these open-book, timed questions to receive 5 bonus points.	<b>5</b>	Coursepack Material

### 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:

(Team Derm Clinic + Individual Final + Verbal Answer + Histology Lab Quiz + COMbank Quiz)/ (total points possible (137)) X 100%  
= Final Percent Score

- **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% or a final point total of 96.
- **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% or a final point total of 96, 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 65 % or greater.

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

All remediation exams for semester 4 are scheduled for August 16 and/or August 17. 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. Michelle Gallagher, 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 a formal on-line course evaluation upon conclusion of the course. Student feedback gives Course Coordinators valuable information about their performance, their colleagues' performance, and the course quality. 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 Student Handbook at <https://com.msu.edu/current-students/student-handbook-course-catalog> 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: broadcast at a designated time; intended to be viewed synchronously
- Online Lecture: recorded content, may be viewed asynchronously
- Webinar: more interactive session where student participation is expected
- Lab: may refer to on-site clinical skills training or online lab session; see details

## **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 Sessions**

All lectures and other class sessions are considered 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 director. Optional class sessions are offered by faculty to assist students in learning or reviewing course content.

## **Absences from Mandatory Sessions and Examinations/Assessments**

It is the responsibility of the student to know which class sessions are deemed 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**

Each student is responsible for knowing and complying 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](http://splife.studentlife.msu.edu).

## **iClicker Policy**

It is your responsibility to know and comply with the iClicker 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 iClicker is used to take attendance for an on-campus event, you will be expected to arrive at the physical location on time and to stay for the duration of the assigned activity. If iClicker 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 your iClicker account to another student by sharing your device and/or account login, nor should you accept another student's device or login credentials to access iClicker 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 Well-being**

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 you have 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.

## **Academic Support Resources at MSUCOM**

As a way to acclimate you to the curriculum at MSUCOM, we have created a program called On Target: <https://michiganstate.sharepoint.com/sites/OnTargetforAcademicSuccess>

On this site you will find semester roadmaps which give a general overview of each semester, tools needed to be successful in the curriculum and targeted resources for your unique learning situation. In each semester's road map, you will also find course expectations, tips for success, potential trouble spots, longitudinal course integration, and specific course study guides.

## **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](http://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](mailto: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 director 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](http://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, you 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 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.