

OST 624

Essentials of Diabetes

CLERKSHIP ELECTIVE ROTATION SYLLABUS

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At Michigan State University College of Osteopathic Medicine (MSUCOM), we are constantly working to improve our curriculum and to meet accreditation guidelines. We need to meet the challenges of modern medicine that force us to innovate. While changes will generally be instituted at the beginning of the school year, changes may also be implemented semester to semester.

Please be mindful of the need to read your syllabi before beginning your rotation.

TABLE OF CONTENTS

INTRODUCTION AND OVERVIEW	1
ELECTIVE COURSE SCHEDULING	1
Preapproval.....	1
Required Prerequisites	1
Course Confirmation and Enrollment.....	1
ROTATION FORMAT	1
GOALS AND OBJECTIVES	2
GOALS.....	2
OBJECTIVES	2
COMPETENCIES.....	2
COLLEGE PROGRAM OBJECTIVES	2
REFERENCES	2
REQUIRED STUDY RESOURCES	2
American Diabetes Association Standards of Medical Care in Diabetes 2024	3
SUGGESTED STUDY RESOURCES	3
Recommended Texts	3
Recommended Websites	3
ROTATION REQUIREMENTS	3
WEEKLY READINGS/OBJECTIVES/ASSIGNMENTS	3
QUIZZES.....	4
ONLINE MODULES OR CONFERENCES.....	4
ROTATION EVALUATIONS	4
Student Evaluation of Clerkship Rotation	4
CORRECTIVE ACTION.....	4
BASE HOSPITAL REQUIREMENTS	4
STUDENT RESPONSIBILITIES AND EXPECTATIONS	4
MSU COLLEGE OF OSTEOPATHIC MEDICINE STANDARD POLICIES	4
CLERKSHIP ATTENDANCE POLICY.....	5
POLICY FOR MEDICAL STUDENT SUPERVISION	5
MSUCOM STUDENT HANDBOOK	5
COMMON GROUND FRAMEWORK FOR PROFESSIONAL CONDUCT	5
MEDICAL STUDENT RIGHTS AND RESPONSIBILITIES.....	5
MSU EMAIL	5
STUDENT EXPOSURE PROCEDURE.....	6
COURSE GRADES	6
N Grade Policy.....	6

STUDENT ACCOMMODATION LETTERS.....	6
SUMMARY OF GRADING REQUIREMENTS	8

INTRODUCTION AND OVERVIEW

This syllabus provides an overview of rotation goals and objectives designed to help you gain an understanding of the breadth and scope of diabetes care. As you progress through this virtual rotation, you will gain knowledge to treat patients with diabetes across the spectrum- from children to the elderly. Please make sure to review this syllabus in its entirety to ensure understanding of the rotation format, syllabus content, and MSUCOM expectations

ELECTIVE COURSE SCHEDULING

Preapproval

- This course does not require preapproval from the IOR. The student must contact their Clerkship Resource Specialist (CRS) via email at com.clerkship@msu.edu with the following details of the rotation/rotation site when seeking preapproval:
 - Proposed dates of rotation
 - Number of virtual rotations already taken
- The CRS will confirm eligibility and contact the IOR and CA with approval and scheduled rotation dates.

Required Prerequisites

- This course does not require any prerequisite courses.

Course Confirmation and Enrollment

- The student must be an active student at MSUCOM.
- Student must complete five core rotations prior to any elective rotation.
- It is the student's responsibility to provide the elective site/rotation acceptance material to the COM.Clerkship@msu.edu for MSU confirmation and scheduling.
 - MSUCOM clerkship confirmation is complete when the rotation is visible on the students Medtrics schedule.
- It is the student's responsibility to ensure enrollment prior to beginning any course/rotation.
 - Enrollment will be processed by the MSUCOM Registrar's Office upon clerkship confirmation.
 - Enrollment can be verified by the student by reviewing the Student Information System
- MSUCOM confirmation must occur at least 30 days in advance of the rotation.
- Once confirmed, the rotation may only be cancelled 30 days or more in advance of the start date.

ROTATION FORMAT

This rotation has been designed to cover primary topics in diabetes. Each week will focus on several didactic topics of importance. This is a virtual elective rotation that can be 1-week for 1.5 credits or 2-week for three credits. It may be taken as a 1-week course or a 2 -week course, split or consecutive. All coursework will be completed on D2L. This course may be taken for a maximum of 2 weeks.

This course will fulfil elective requirements but does not count towards either medicine or surgery requirements.

GOALS AND OBJECTIVES

GOALS

1. The goal of this course is to increase the knowledge of the care of patients with all types of diabetes.

OBJECTIVES

1. Review the pathophysiology of type 1 and type 2 diabetes.
2. Discuss medications for patients with diabetes.
3. Differentiate treatment options and goals for diverse populations with diabetes.
4. Review and appraise landmark trials in diabetes care.
5. Discuss clinical guidelines and apply that knowledge to patient cases.
6. Describe unique considerations to special patient populations with diabetes.
7. Recognize emergent situations and support clinical decision making.
8. Create a presentation designing a new drug for diabetes treatment.

COMPETENCIES

1. Osteopathic Principles and Practice
 - Apply knowledge of the biomedical sciences, such as functional anatomy, physiology, biochemistry, histology, pathology, and pharmacology, to support the appropriate application of osteopathic principles and OMT.
2. Medical Knowledge
 - Use scientific concepts to evaluate, diagnose, and manage clinical patient presentations and population health.
3. Patient Care
 - Formulate a management plan based on evaluation of the best evidence from the medical literature and other resources related to the findings obtained during the patient encounter.
4. Practice-Based Learning and Improvement
 - Describe and apply evidence-based medical principles and practices. Interpret features and meanings of several types of data, quantitative and qualitative, and distinct types of variables, including nominal, dichotomous, ordinal, continuous, ratio, and proportion.
 - Critically evaluate medical information and its sources and apply such information appropriately to decisions relating to patient care.

COLLEGE PROGRAM OBJECTIVES

In addition to the above course-specific goals and learning objectives, this clerkship rotation also facilitates student progress in attaining the College Program Objectives. Please refer to the complete list provided on the MSUCOM website (<https://com.msu.edu/>) and in the Student Handbook.

REFERENCES

REQUIRED STUDY RESOURCES

Desire 2 Learn (D2L): Please find online content for this course in D2L (<https://d2l.msu.edu/>). Once logged in with your MSU Net ID, your course will appear on the D2L landing page. If you do not see your course on the landing page, search for the course with the following criteria, and pin it to your homepage:
Essentials of Diabetes

Essentials of Diabetes OST 624

If you encounter any issues accessing this D2L course, please email the CA (on the title page of this syllabus). It is your responsibility to make sure you have access to the course D2L page on the first day of the course.

American Diabetes Association Standards of Medical Care in Diabetes 2024

Available at <https://professional.diabetes.org/>

SUGGESTED STUDY RESOURCES

Recommended Texts

Harrison's Principles of Internal Medicine

Available at AccessMedicine through MSU Library:

<https://accessmedicine-mhmedical-com.proxy2.cl.msu.edu/>

Recommended Websites

Diabetes Pro: <https://professional.diabetes.org/>

ROTATION REQUIREMENTS

REQUIREMENT	SUBMISSION METHOD	DUE DATE Please refer to D2L for actual (month/day) due dates
Weekly quizzes	D2L	Weekly by Sunday at 11:59pm
Final Project	D2L	Last day of rotation at 11:59pm
Student Evaluation of Clerkship Rotation	Students will submit their rotation evaluations electronically at the conclusion of every rotation by accessing the Medtrics system: https://msucom.medtricslab.com/users/login/ . By the last week of each rotation, students will receive an automated email link connecting them to their assigned evaluation. Students can also access pending evaluations on the 'Home' or 'Evaluations' tabs within their Medtrics accounts.	Last Day of Rotation

WEEKLY READINGS/OBJECTIVES/ASSIGNMENTS

Each week will contain modules on D2L focusing on the following topics:

- Pathophysiology of Diabetes
- Treatment of Diabetes: Medications
- Treatment of Diabetes: Insulin
- Clinical guidelines
- Landmark Studies
- Considerations in Special Populations

Final Project

Each student will complete a 15-minute presentation that will focus on designing a medication for diabetes. The presentation will be recorded and uploaded into D2L.

QUIZZES

Weekly quizzes will be assigned on D2L to assess the material from each module.

ONLINE MODULES OR CONFERENCES

Weekly self-paced webinars will be assigned from the American Diabetes Association

ROTATION EVALUATIONS

Student Evaluation of Clerkship Rotation

Students will submit their rotation evaluations electronically at the conclusion of every rotation by accessing the Medtrics system: <https://msucom.medtricslab.com/users/login/>. By the last week of each rotation, students will receive an automated email link connecting them to their assigned evaluation for the respective rotation. Students can also access their pending evaluations on the 'Home' or 'Evaluations' tabs within their Medtrics accounts.

Professionalism concerns, as well as accolades, will also be referred to the MSUCOM Spartan Committee Clearinghouse for resolution, per MSUCOM's Common Ground Framework for Professional Conduct.

CORRECTIVE ACTION

There is no corrective action available for this course.

As determined by the IOR, the student will receive an N grade for the course if all assignments are **not completed** successfully on the last day of rotation at 11:59pm (except for the Student Evaluation). Additionally, a letter of unprofessional behavior for late submission of assignments will be sent to the MSUCOM Spartan Community Clearinghouse.

BASE HOSPITAL REQUIREMENTS

Students are responsible for completing all additional requirements set by the hospital/clinical site at which they are completing a rotation. Students are not responsible for reporting to MSUCOM the results of any requirements that exist outside of those listed above.

STUDENT RESPONSIBILITIES AND EXPECTATIONS

This is a virtual rotation. Students are responsible for self-paced learning and timely completion of assignments within the rotation.

MSU COLLEGE OF OSTEOPATHIC MEDICINE STANDARD POLICIES

The following are standard MSUCOM policies across all Clerkship rotations.

CLERKSHIP ATTENDANCE POLICY

MSUCOM requires student participation in clerkship rotations and clinical activities with consistent attendance to acquire the skills and knowledge necessary for successful program completion. This policy will define the policy and procedures regarding absences for clerkship activities. [Clerkship-Absence-Policy.pdf \(msu.edu\)](#)

POLICY FOR MEDICAL STUDENT SUPERVISION

The MSUCOM curriculum includes required clinical experiences in a variety of clinical learning environments. The Medical Student Supervision Policy outlines all supervision agreements and expectations. [Clerkship Medical Student Supervision Policy.pdf](#)

MSUCOM STUDENT HANDBOOK

The Student Handbook is published electronically by MSUCOM for students in the Doctor of Osteopathic Medicine program. This handbook does not supersede other Michigan State University or College of Osteopathic Medicine policies, regulations, agreements, or guidelines. <https://osteopathicmedicine.msu.edu/current-students/student-handbook>.

COMMON GROUND FRAMEWORK FOR PROFESSIONAL CONDUCT

The Common Ground Framework provides the MSUCOM community with a reminder of the unity of mind, body, and spirit that underlines the field of osteopathic medicine. The framework is a set of guiding, foundational principles that underpin professional conduct and integrity and applies to all professionals at work within the shared college community, independent of their specific roles or responsibilities. <https://osteopathicmedicine.msu.edu/about-us/common-ground-professionalism-initiative>

MEDICAL STUDENT RIGHTS AND RESPONSIBILITIES

The rights and responsibilities of students enrolled in MSUCOM are defined by the medical colleges of Michigan State University, including the College of Osteopathic Medicine, the College of Human Medicine, and the College of Veterinary Medicine. Students enrolled in the professional curricula of these colleges are identified as “medical students.” These colleges collectively define “Medical Student Rights and Responsibilities” (MSRR). This document addresses academic rights and responsibilities, governance, procedures for complaints, due process, and other topics. The current version is available on the MSU Spartan Life website at the address below: <http://splife.studentlife.msu.edu/medical-student-rights-and-responsibilities-mssr>

MSU EMAIL

MSU email is the official communication from faculty and staff to students and students are responsible for checking it daily and maintaining their MSU email accounts so that messages can be received.

Forwarding MSU email to another email account or failure to check email are not valid excuses for missing a deadline or other requirements of the DO program.

Further, students must use secure email when working in a hospital, clinic, or other health care setting if discussion of patient information is involved. MSUNet (msu.edu) email is secure; many web-based email systems including Hotmail, Gmail, and Yahoo are not.

<https://osteopathicmedicine.msu.edu/current-students/student-handbook>.

DUTY HOURS AND FATIGUE MITIGATION

The accreditation standards for graduate medical education programs include restrictions on the duty hours of residents. Additionally, institutions are expected to promote a clinical learning environment in which duty hours are monitored and strategies exist to mitigate the effects of fatigue. [Clerkship Duty Hours and Fatigue Mitigation Policy.pdf](#)

STUDENT EXPOSURE PROCEDURE

A protocol has been developed by the University Physician to report incidents of exposure, e.g., needle sticks, mucous membrane exposure, tuberculosis exposure, etc., and it may be found here: <https://osteopathicmedicine.msu.edu/current-students/clerkship-medical-education/injury-and-property-damage-reports>

Contact Associate Dean for Clerkship Education, Dr. Susan Enright (enright4@msu.edu), if exposure incident occurs.

COURSE GRADES

P/Pass – means that credit is granted, and that the student achieved a level of performance judged to be satisfactory by the department according to the student's didactic and clinical performance.

NGR/No Grade Reported – means that a final grade ('Pass' or 'No Grade') cannot be determined due to one or more missing course requirements. The NGR grade will be changed to a final grade once all the completed course requirements have been submitted to and processed by MSUCOM (either to the department or Clerkship Team). An 'NGR' grade will NOT remain on a student's transcript.

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 department according to the student's didactic and clinical performance.

N Grade Policy

Students who fail this rotation will have to repeat the entire rotation and fulfill all (clinical and academic) requirements.

STUDENT ACCOMMODATION LETTERS

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-RCPD, or on the web at www.rcpd.msu.edu. Once a student's eligibility for (clinical and/or testing) accommodation(s) are determined, the student may be issued an Accommodation Letter. Students must present their letter to the Clerkship Team (COM.Clerkship@msu.edu) at the start of the semester in which they intend to use their accommodations (for tests, projects, labs, etc.). Accommodation requests received after the semester onset will be honored whenever possible.

Essentials of Diabetes OST 624

If modifications, updates, or extensions to an existing letter are made after the semester begins, it is the responsibility of the student to submit the newest version to the Clerkship Team if he/she intends to utilize the accommodation going forward.

SUMMARY OF GRADING REQUIREMENTS

Requirement	Submission Method	Pass	No Grade Reported	No Pass
Weekly Quizzes	D2L	Completed weekly by Sunday at 11:59pm. A score of $\geq 80\%$ overall in the course is required to pass.	N/A	Failure to complete and submit by the last day of the rotation
Final Project	D2L	Completed and uploaded to D2L by 11:59 on the last day of rotation. A score of $\geq 80\%$ overall in the course is required to pass.	Will be conditional until all requirements are met.	Failure to complete and submit by the last day of the rotation
Student Evaluation of Clerkship Rotation	Can be accessed and submitted electronically by students within the dashboard of their Medtrics profiles	Completed 100% by 11:59 pm the last day of the rotation	Will be the conditional grade until all requirements of this rotation are met.	Students will not fail OST 624 for not completing the student evaluation; however, their grade will remain an NGR until it is completed.