

**PHM 590 Case Studies in Clinical Pharmacology**

Fall Semester – 2023

**Table of Contents**

Elective Description ..... 2

Course Goals ..... 2

Course Coordinator..... 2

Staff or Student Coordinator ..... 2

Instructors ..... 2

Lines of Communication ..... 2

Office Hours ..... 3

Textbooks and Reference Materials ..... 3

Elective Schedule ..... 3

Required Exams/Assessments ..... 5

Required Proctoring Arrangements..... 5

Elective Grades..... 5

Student Evaluation of the Course ..... 6

Academic Honesty and Professionalism ..... 7

Types of Class Sessions ..... 7

Mandatory and Optional Class Sessions ..... 7

Absences from Mandatory and Examinations/Assessments..... 7

Computer-Based Testing..... 7

Medical Student Rights and Responsibilities ..... 8

Remediation..... 8

Student Safety and Well-being ..... 8

Requests for Accommodations ..... 8

Title IX Notifications..... 9

**Notice to Students:** Although Elective syllabi at MSUCOM have a consistent format; vitally important details differ by Elective. For this reason, you must read the syllabus thoroughly at the onset of each elective to understand what educational activities will be provided and what is expected of you.

## Section 1 – Course Information

### Elective Description

PHM 590- Case Studies in Clinical Pharmacology- is a 2-credit hour course that provides students with an opportunity to learn, refresh and apply basic knowledge of pharmacology to clinical therapeutic problems. The Course will be presented through zoom meetings with chat and polling participation. There will be nongraded questions in multiple-choice, clinical vignette-style each week for students' review and discussion.

### Course Goals

1. *Apply existing knowledge to clinical therapeutic problems.*
2. *Find, interpret, and apply new drug information to clinical therapeutic problems.*
3. *Apply knowledge of pharmacogenomics to personalized therapeutics.*
4. *Discuss clinical cases and questions to practice for the board exams.*

### Course Coordinator

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

Name: Carolina Restini, PharmD, Ph.D.

Phone: 586-263-6757 (MUC) or 313-578-9646 (DMC)

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

Addresses: Macomb University Center (MUC): 44575 Garfield Road, Building UC4-Clinton Township, MI 48038.

Detroit Medical Center (DMC): 4707 Saint Antoine, Detroit, MI 48201.

### Staff or Student Coordinator

Name: Smita Deb

Phone: 313.578.9628

Email: [debsmita@msu.edu](mailto:debsmita@msu.edu)

Address: 4707 St. Antoine Detroit, MI 48201 - DMC

### Instructors

Name	Email	Phone	Site
Carolina Restini, PharmD, PhD	<a href="mailto:restinic@msu.edu">restinic@msu.edu</a>	586-263-6757 313-578-9646	MUC DMC
Reza Nassiri, PhD	<a href="mailto:nassiri@msu.edu">nassiri@msu.edu</a>	814-566-3484	EL

### 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)

## Office Hours

Questions concerning may be discussed individually by making an appointment with the Course Coordinator, *Dr. Carolina Restini*, by phone at 586-263-6757 or 313-578-9646 or via e-mail [restinic@msu.edu](mailto:restinic@msu.edu). The course coordinator is generally available as needed or by appointment.

## Textbooks and Reference Materials

### Required

- Cases and resources posted at D2L related to each session. The cases will be posted one week ahead of the respective session.

**Note: didactic material used by the instructor to resolve the cases during the lecture will be posted after the respective lecture.**

### Recommended

- Utilize relevant current medical literature.

### Optional

- Goodman and Gilman's The Pharmacological Basis of Therapeutics, 14th ed. 2023.  
<https://accessmedicine-mhmedical-com.proxy1.cl.msu.edu/book.aspx?bookid=3191>
- Katzung's Basic and Clinical Pharmacology. 15th ed. 2021.  
<https://accessmedicine-mhmedical-com.proxy2.cl.msu.edu/book.aspx?bookid=2988>

## Schedule

This elective is presented for 14 consecutive weeks, plus 6 days (after the last day of lecture) to take the exam. All lectures will be presented through zoom. <https://msu.zoom.us/j/94550991485> (Meeting ID: 945 5099 1485). No password is required.

General scheduling for the educational activities of this elective are as follows:

week	Day/Date	Times	Required Activities	Specific Information
1	Aug 30	5:00pm - 6:50pm	Autonomic Pharmacology	Restini
2	Sept 6	5:00pm - 6:50pm	Endocrine Drugs	Restini
3	Sept 13	5:00pm - 6:50pm	Adverse Drug Reactions/Drug Interactions	Restini
4	Sept 20	5:00pm - 6:50pm	Pharmacogenomics	Restini
5	Sept 27	5:00pm - 6:50pm	Geriatric Pharmacology	Restini
6	Oct 4	5:00pm - 6:50pm	Anti-inflammatory Drugs	Restini
7	Oct 11	5:00pm - 6:50pm	Pharmacology of irritable bowel disease	Nassiri/Restini
8	Oct 18	5:00pm - 6:50pm	Antibiotic Resistance	Nassiri/Restini
9	Oct 25	5:00pm - 6:50pm	Travel-Associated Infectious Diseases	Nassiri/Restini
10	Nov 1	5:00pm - 6:50pm	Cardiovascular Drugs	Restini
11	Nov 8	5:00pm - 6:50pm	HIV/AIDS	Nassiri/Restini
12	Nov 15	<b>5:00pm - 7:00pm</b>	COVID-19	Nassiri/Restini
13	Nov 22	-----	Day before Thanksgiving – no CLASS	-----
14	Nov 29	5:00pm - 6:50pm	Psychoactive Drugs	Restini / Kaiser
15	Dec 6	5:00pm - 6:50pm	Pharmacology of Pain and drug of abuse	Restini
	<b>Dec 6-12</b>	<b>From 7:30 pm on Dec 6<sup>th</sup> to 6:50 pm on Dec 12<sup>th</sup></b>	<b>Exam questions at D2L</b>	<b>Complete the exam by Dec, 12<sup>th</sup> at 6:50 pm at D2L.</b>

## Required Exams/Assessments

There will be one exam given in PHM 590 - Case Studies in Clinical Pharmacology, this semester. Your score on the exam and your scores on the case study sessions will determine your grade in the Course. The assessment schedule is as follows:

Required	Projected Points	Material to be Covered
Participation points.	10	Students will demonstrate participation in answering questions during clinical cases discussions. Students who miss 4 or more lectures without excuses will not receive the participation points. See details below
End of Course open-book take-home exam*	90	Pharmacologic principles covered in the Course will be in the form of clinical cases.

*\*Note about the exam: Exam questions will be available through D2L. Students will have access to the exam questions from Dec 6<sup>th</sup>, 2023, 7:30 pm to Dec 12<sup>th</sup>, 2023, 6:50 pm. During this time, the students will have free access to the questions at their demand.*

## Required Proctoring Arrangements

The students will take an open-book, take-home exam. The students will receive the take-home exam questions through D2L. There is no need for proctoring arrangements.

## Missed Session

All sessions are mandatory. Students who miss a session must request an excused absence by contacting Dr. Restini at [restinic@msu.edu](mailto:restinic@msu.edu) before or within 24 hours after the missed session.

If the absence is excused, a makeup opportunity for the missed session may be available at the discretion of the course coordinator, and no participation points will be deducted.

If the absence is not excused, no makeup session will be available, and 1 participation point will be deducted.

Students who have more than 4 unexcused absences will receive an N grade for the course.

## Elective Grades

A student's course grade is determined by the following:

### End-of-course online exam worth 100 points

- **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 a minimum of 70% or 70 points.
- **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 accumulates less than 70 points or less than 70% will receive an "N" grade.
- Remediation - Since elective courses in the MSUCOM pre-clerkship curriculum are optional, students are not required to remediate the elective if an "N" grade is received, and no remediation option is available.
- More than 4 unexcused absences, without reasoning prior or within 24 hours after the session, the student will receive an 'N' grade.
- Students must e-mail the course coordinator to justify the absence prior or within 24 hours after the missed session; an assignment related to the missed session will be given to be turned in within one week only to the students who have their absence excused.

## **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. Restini, or any of the other course faculty with your reactions and suggestions. Or write out your comments and email them to the Course Coordinator. From time to time, we may also convene focus groups of students, as an additional way to elicit your opinions and suggestions.
- **Formal Evaluation:** In addition to the above, we ask every student in the class to complete a formal online Elective evaluation upon conclusion of the Elective. Student Elective evaluations are highly recommended. Student feedback provides Elective Coordinators with valuable information regarding their performance, the performance of their instructors, and the quality of the Elective. The information gained from these evaluations is used to continuously improve future offerings of this Elective.

## 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/resources-self-help/academic-integrity>.

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 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 the course content.

### Absences from Mandatory 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

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 screenshots, 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).

## **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 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. Remediation is not available for pre-clerkship electives.

## **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.

## **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 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](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**

The 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.