

## **MMG531 – Medical Immunology**

Semester 2 - Fall 2020

Updated: 7-29-20 JMT/SD

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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

MMG531 is a 2-credit-hour course that provides students with an understanding of the basic functions of cells and molecules that mediate immune responses and how the immune response relates to various clinical scenarios.

### Course Goals

1. To recognize and describe immune responses at the organismal, tissue and cellular levels.
2. To explain how the immune system is regulated and how it interacts with other organ systems.
3. To explain the mechanisms leading to pathologies associated with immune deficiencies, autoimmunity, transplant rejection, and hypersensitivities in contrast to those mechanisms involved in a protective immune response.
4. To rationalize the use of immunotherapies (including vaccines) in disease prevention, treatment, and management.
5. To identify components of the immune system as indicators of health or disease in order to interpret results of basic laboratory data and immunodiagnostic tests.

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

### 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 Overview of Program](#).

### Course Coordinator

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

Name: John M. Taylor, Ph.D.

Phone: 586-263-6066

Email: [tayl3736@msu.edu](mailto:tayl3736@msu.edu) (*preferred*)

Address: 44575 Garfield Rd. Building UC4, Clinton Twp. MI, 48038

### Course Faculty

Name	Email	Phone	Site
Dennis Arvidson, Ph.D.	<a href="mailto:arvidso4@msu.edu">arvidso4@msu.edu</a>	517-884-5001	EL
Andrew Olive, Ph.D.	<a href="mailto:oliveand@msu.edu">oliveand@msu.edu</a>	517-884-5367	EL
Jonathan Horbal, D.O.	<a href="mailto:horbaljo@msu.edu">horbaljo@msu.edu</a>		EL
Raquel Ritchie, Ph.D.	<a href="mailto:rritchie@msu.edu">rritchie@msu.edu</a>	586-263-6296	MUC
Melissa Rosenberg, M.D.	<a href="mailto:rosen119@msu.edu">rosen119@msu.edu</a>	517-353-3100	EL

## Curriculum Assistants

Site	Name	Email	Phone
DMC	Smita Deb (L)	<a href="mailto:debsmita@msu.edu">debsmita@msu.edu</a>	313-578-9628
East Lansing	Robin Borowski	<a href="mailto:chambe27@msu.edu">chambe27@msu.edu</a>	517-353-9515
MUC	Rose Shubeck	<a href="mailto:shubeck@msu.edu">shubeck@msu.edu</a>	586-226-4788

## Lines of Communication

- For administrative aspects of the Course, please contact the course coordinator.
- For content questions relating to a specific lecture or topic, please contact the faculty presenter for that specific portion of the course, or your local site faculty member. Faculty members will do their best to try to reply to messages by the next business day.
- For absences/missed exams, see excused absence information in “Section 2: Policies”, below.
- Please set your D2L notifications to immediate in order to receive posted News announcements as this is the primary means of communication. You may choose to receive notifications by email or SMS.

## Office Hours

Questions concerning the course or materials may be discussed individually by making an appointment with the Course Coordinator or the Lecturer for the specific topic. All appointments and office hours will be conducted via Zoom (<https://msu.zoom.us/>). Please contact Dr. Taylor directly if you would like to set up a Zoom appointment for office hours. In addition, Dr. Taylor will plan to hold open Zoom office hours on scheduled lecture days utilizing a Zoom waiting room. Please review the MMG 531 schedule and D2L for more details on dates and times.

## Course Web Site

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

The course D2L site has these pertinent sections:

- **Announcements** – Course-related communication to the class will be made here. You should check the course D2L site for announcements daily.
- **Syllabus** – Contains the course syllabus with information about the instructional team, textbooks, exam dates, grading system, rules and regulations, etc.
- **Content** – Lecture recordings, practice questions, self-study modules (SSM), and other course-related materials.
- **Communication** – Contains the course-related email system, the Discussion Forums, and Chat for submitting in-class questions.
- **Discussion Boards** – Organized by lecture topic. The discussion board is intended to be primarily student led, but will be monitored by faculty. Students are encouraged to post questions here as well as respond to each other’s questions. Professional and courteous behavior is expected of all students using any and all forms of communication. As well, relevant questions emailed to the lecturer will be routinely de-identified and posted for the class to view. Please check the discussion forum prior to sending a question to faculty members as it is possible that you are not the only student with that specific question. **Please note: In order to maintain security of assessments, you may NOT post questions or comments on the discussion board regarding exam questions or quiz questions.**

## Textbooks and Reference Materials

### Required

- MMG 531 FS20 Course Pack
- *Basic Immunology: Functions and Disorders of the Immune System*, 6<sup>th</sup> Edition (2019), Abbas, Lichtman & Pillai (Saunders/Elsevier) ISBN: 9780323639118 ([Digital Copy of Abbas](#))

### Recommended

- *Medical Microbiology*, 8<sup>th</sup> ed. 2016, Murray, Rosenthal & Pfaller (Saunders/Elsevier) ISBN: 9780323299565 ([Digital Copy of Murray](#))
- *Red Book 2018-2021: Report of the Committee on Infectious Diseases*. American Academy of Pediatrics. 31<sup>st</sup> edition. ISBN: 9781610021463 ([Digital Copy of Red Book](#))

## 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 issues you may have involving this course.

Additional academic support resources can be accessed here: [MSUCOM Office of Academic Success and Career Planning](#).

## Courses begin and end dates

MMG531 begins on September 29, 2020 and ends on November 9, 2020. See the addendum for a 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.

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

The assessment schedule is as follows:

<b>Assessments</b>	<b>Projected Points</b>	<b>Material to be Covered</b>
Quiz #1 (on D2L)	2.5 *	Lectures 1-4
Quiz #2 (on D2L)	2.5 *	Lectures 5-7
<b>Unit Exam #3</b>	21	<b>Lectures 1-7</b>
Quiz #3 (on D2L)	2.5 *	Lectures 8-12
Quiz #4 (on D2L)	2.5 *	Lectures 13-16
<b>Unit Exam #4</b>	27	<b>Lectures 1-16</b>
Quiz #5 (on D2L)	2.5 *	Lectures 17-20
Quiz #6 (on D2L)	2.5 *	Lectures 21-26
Self-directed Case-Based Learning Report	2	Diagnostic Immunology Cases (SDL Activity)
<b>Unit Exam #5</b>	27	<b>All lectures, Cases, and Application Sessions</b>
<b>TOTAL PROJECTED POINTS</b>	<b>87</b>	

\*Please note: only your four (4) highest quiz scores will be kept and recorded.

**Quizzes:**

Six quizzes will be administered **online using D2L**, and you will be able to drop your two lowest quiz scores. As a result, there will be no make-up opportunities for any student who misses a quiz at the originally scheduled time. In addition, excused absences will not be available for these assessments. These quizzes are closed book and must be completed individually.

**Self-Directed Case-Based Learning in Medical Immunology: Diagnostic Immunology Cases**

It is a goal of MSUCOM to promote self-directed learning (SDL) to help our students grow into strong, self-directed future clinicians. Self-directed learning is also required by medical school accreditation standards. SDL is a 4-step process that occurs within an encapsulated timeframe. One of the ways this will take shape in MMG 531 is via a self-directed, case-based learning module and report, **Diagnostic Immunology Cases**, which unfolds as follows:

1. **Self-Assessment of Learning Needs:** Students will be presented with three cases along with guiding questions. They must then reflect on their knowledge to isolate learning needs with respect to these questions.

2. **Identification, Analysis, & Synthesis of Information:** Students will seek out and synthesize related information through activities such as reviewing course materials, locating reputable resources or peer-reviewed articles, and collaborating with pod members via Zoom.
3. **Appraisal of Information Credibility:** After synthesizing gathered information, students will have the chance to appraise and apply their knowledge via a group case report in their pods. Students may use a collaborative document editing software (Google Drive or Spartan 365) along with a supplied template in D2L which offers helpful information to guide their efforts and help them avoid common pitfalls.
4. **Feedback on Information-Seeking Skills:** Students will be provided feedback on their assignment through written feedback via D2L that may be addressed to the class in terms of holistic performance themes or to individual pods in terms of small group performance.

### **Clinical Application Session:**

On Friday October 30<sup>th</sup>, 2020, there will be one (1) **live** Clinical Application Session in conjunction with PSL 539, to be conducted via Zoom, which will be evaluated on UE5 for MMG 531. Please refer to each course syllabus, the course pack announcement, and course D2L sites for specific details of the Session for each course.

### **Course Grades**

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

- $(\text{Sum of points scored on MMG 531 portions of Unit Exams \#3, \#4, and \#5}) + (\text{Points scored on highest four Quizzes \#1-6}) + (\text{Points earned on the Diagnostic Immunology Self-Directed Learning Report}) / (\text{Total Points Possible}) \times 100\% = \text{Final Percent Score}$
- **P-Pass:** Credit is granted and the student achieved a satisfactory level of performance. To obtain a "P" grade for this course, a student must obtain a final percent score of 70%.
- **N-No Grade:** No credit is granted as the student did not achieve a satisfactory level of performance. A student who earns an accumulated score below 70% will receive an "N" grade.
- **Remediation:** If you receive an "N" Grade, but earn an accumulated course percent score of at least 60%, you will be eligible to attempt remediation:
  - The remediation exam will be 50 questions, is comprehensive for the entire course, and a passing grade is  $\geq 70.0\%$  ( $\geq 35$  correct).
  - All remediation exams for Semester 2 are scheduled for **Tuesday, January 5th, 2021 and Wednesday, January 6th, 2021.**
  - Please refer to the remediation policy information provided in Section 2 of this syllabus ("Remediation") for information on College requirements and eligibility determination.

### **Student Evaluation of the Course**

We would like to hear your feedback on how to improve this course.

- **Informal Feedback:** Please feel free to approach or email the Course Coordinator, or any of the other course faculty with helpful comments and suggestions. We may also periodically convene student focus groups as an additional way to elicit student opinions and suggestions.

- SIRS Evaluations: You are not required to complete the course evaluations available to you via SIRS. If you would like to opt out of the ability to evaluate this course using SIRS, login to [sirsonline.msu.edu](http://sirsonline.msu.edu), click the link to the survey, then select button at the bottom that says, “Decline to Participate.”
- 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 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**

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 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 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](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. 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.

## **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**

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.