

**UCDSOM GRADUATION COMPETENCIES AND EDUCATIONAL PROGRAM  
OBJECTIVES LINKED TO COURSE OBJECTIVES FOR  
MMI 480A IMMUNOLOGY**

**GRADUATION COMPETENCY I.** UCDSOM graduates will provide **patient care** that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

<b>EDUCATIONAL OBJECTIVES RELEVANT TO COURSE OBJECTIVES</b>	<b>COURSE OBJECTIVES</b>	<b>ASSESSMENT OF STUDENT ACHIEVEMENT OF COURSE OBJECTIVES</b>
<p>I. 6. Employ a systematic approach to clinical reasoning and problem-solving that begins with problem recognition, ends with case resolution, and explicitly acknowledge the degree of uncertainty at each step.</p> <p>I. 8. Incorporate a broad knowledge of the biomedical sciences and an understanding of pathophysiology into the clinical reasoning process.</p>	<p>1. Learn to apply a systematic approach to clinical reasoning and problem solving that begins with problem recognition, ends with case resolution, and explicitly acknowledges the degree of uncertainty at each step.</p> <p>2. Organize, synthesize and interpret information obtained from the medical literature and reason deductively.</p> <p>3. Incorporate a broad knowledge of the biomedical sciences and an understanding of pathophysiology into the clinical reasoning process.</p>	<p>Written examinations are used to evaluate students' understanding and knowledge of the course content.</p> <p>Small group presentations are used to discuss and present clinical cases. Students utilize a group problem solving approach to answer questions and reach a diagnosis or explain a set of findings.</p> <p>Knowledge and understanding are evaluated through quizzes.</p>

**GRADUATION COMPETENCY II.** UCDSOM graduates will demonstrate **knowledge** about established and evolving biomedical, clinical, and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care.

<b>EDUCATIONAL OBJECTIVES RELEVANT TO COURSE OBJECTIVES</b>	<b>COURSE OBJECTIVES</b>	<b>ASSESSMENT OF STUDENT ACHIEVEMENT OF COURSE OBJECTIVES</b>
<p>II. 1. Understand the normal human structure and function relevant to the understanding of human disease.</p> <p>II. 2. Describe the etiology, pathogenesis, structural and functional manifestations of representative diseases for all organ systems of the human body.</p> <p>II. 4. Utilize a vocabulary of disease for communication to colleagues, patients and families.</p>	<p>The student will acquire medical knowledge that enables him/her to:</p> <p>1. Understand the normal human structure and function relevant to the understanding of human disease</p> <p>2. Describe the etiology, pathogenesis, structural and functional manifestations of representative diseases for all organ systems of the human body.</p>	<p>Through written quizzes and examinations, students are tested on their understanding of the human immune system.</p> <p>Students are tested on their understanding of the etiology, pathogenesis and manifestations of immune pathologies.</p>

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	<ol style="list-style-type: none"> <li>3. Describe the context of specific diseases in terms of prevalence, morbidity and mortality within society and specific populations</li> <li>4. Utilize a vocabulary of disease for communication to colleagues, patients and families.</li> <li>5. Understand etiology and risk factors for disease progression, principles of disease surveillance, screening and health needs assessment.</li> <li>6. Understand the basics of normal human development and range of behavior at each stage of the life cycle.</li> </ol>	
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**GRADUATION COMPETENCY III.** UCDSOM graduates will exhibit **interpersonal and communication** skills that result in effective information exchange and teaming with patients, their patients' families, and professional associates.

<b>EDUCATIONAL OBJECTIVES RELEVANT TO COURSE OBJECTIVES</b>	<b>COURSE OBJECTIVES</b>	<b>ASSESSMENT OF STUDENT ACHIEVEMENT OF COURSE OBJECTIVES</b>
<p>III. 2. Establish and maintain effective, collaborative professional relationships with peers, colleagues, and allied health care professionals.</p> <p>III. 3. Provide constructive feedback to colleagues, and use feedback from multiple sources to improve professional skills.</p> <p>III. 6. Communicate with learners (students, colleagues, or other professionals) as a teacher and mentor.</p>	<p>The student will develop communication skills by learning to:</p> <ol style="list-style-type: none"> <li>1. Establish and maintain effective, collaborative professional relationships with peers, colleagues, and allied health care professionals.</li> <li>2. Provide constructive feedback to colleagues, and use feedback from multiple sources to improve professional skills.</li> </ol>	<p>Small group presentations are used to discuss and present clinical cases using a group problem solving approach.</p> <p>Knowledge and understanding are evaluated through quizzes.</p>

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	<ol style="list-style-type: none"> <li>3. Understand and utilize shared decision-making in areas where there is uncertainty.</li> <li>4. Communicate with learners (students, colleagues or other professionals) as a teacher and mentor.</li> </ol>	
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**GRADUATION COMPETENCY IV.** UCDSOM graduates will demonstrate a commitment to **professionalism** in carrying out their responsibilities with adherence to ethical principles, and sensitivity to a diverse patient population.

<b>EDUCATIONAL OBJECTIVES RELEVANT TO COURSE OBJECTIVE</b>	<b>COURSE OBJECTIVE</b>	<b>ASSESSMENT OF STUDENT ACHIEVEMENT OF COURSE OBJECTIVE</b>
<p>IV. 1. Pursue excellence through commitments to professional competence.</p> <p>IV. 4. Recognize personal limits in knowledge, experience, ability, and resources.</p>	<p>The student will develop as a medical professional by learning to:</p> <ol style="list-style-type: none"> <li>1. Pursue excellence through commitments to professional competence.</li> <li>2. Participate in self-regulatory activities, both professional governance and self-reflection.</li> <li>3. Understand and apply core ethical concepts, principles and terms, including autonomy, beneficence, nonmaleficence, and justice.</li> </ol>	<p>Students adhere to an honor code. The honor code specifically addresses the issues of honesty, integrity and professionalism in coursework.</p>

**GRADUATION COMPETENCY V.** UCDSOM graduates will demonstrate knowledge of **system-based practice**, i.e., responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

<b>EDUCATIONAL OBJECTIVES RELEVANT TO COURSE OBJECTIVES</b>	<b>COURSE OBJECTIVES</b>	<b>ASSESSMENT OF STUDENT ACHIEVEMENTS OF COURSE OBJECTIVES</b>
None	None	Not specifically addressed in this course.

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**GRADUATION COMPETENCY VI.** UCDSOM graduates will acquire **life-long learning skills.**

<b>EDUCATIONAL OBJECTIVES RELEVANT TO COURSE OBJECTIVE</b>	<b>COURSE OBJECTIVE</b>	<b>ASSESSMENT OF STUDENT ACHIEVEMENTS OF COURSE OBJECTIVE</b>
VI. 1. Demonstrating an inquisitive nature, information management skills, and critical evaluation framework necessary to sustain life-long learning.	Demonstrate an inquisitive nature, information management skills, and critical evaluation framework necessary to sustain life-long learning.	As above, small group problem solving sessions will provide an opportunity for students to interact, pose questions, and synthesize and interpret medical information in a group setting.  Written examinations also evaluate critical thinking skills in addition to information management.

**GRADUATION COMPETENCY VII.** UCDSOM graduates will learn how to approach **practice-based learning.**

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VII. 2. Use feedback to continually enhance knowledge, skills and professional behavior.	Use feedback continually to enhance knowledge, skills and professional behavior.  Teach patients and health colleagues effectively using specific, task-specific educational strategies.	Feedback will be provided regularly to students based upon the results of quizzes, written exams, and group problem solving sessions. This will provide opportunities for students to enhance their knowledge, as well as to assist and teach other colleagues.

**How assessment is used to revise/improve the Course (please fill in):**

- (1) Written examinations and quizzes. The results of written examinations (quizzes and tests) are used to determine subject areas that were communicated effectively to students. When scores are low, this suggests that changes need to be made in terms of the presentation of the material. Either the lectures will be improved to make the presentations clearer, or the format will be changed to allow more student participation in the form of small group discussions and/or case reviews.
- (2) Small group discussions. Students will be asked to review and discuss specific concepts and/or cases and present their conclusions to the class. If they perform poorly and/or reach inappropriate conclusions, this suggests that changes need to be made in terms of preparation time, supporting materials provided, or the question being asked.
- (3) Student evaluations. At the conclusion of the course, students are asked to evaluate the course and the instructors. The Instructors of Record review the students' evaluations and discuss potential course modifications in terms of lecture content, supporting materials, group presentations, discussions, exams, quizzes, and laboratory/diagnostic exercises.