

<b>Title of Clerkship:</b>	Physiology revisited in the clinical setting through cases
<b>Elective Year(s):</b>	M4
<b>Department:</b>	Medical Education
<b>Type of Elective:</b>	Clinical _____ Non-Clinical/Research _____ Basic Science _____ X _____
<b>Clerkship Site:</b>	Department of Medical Education, University of Toledo Health Science Campus
<b>Course Number:</b>	MDED 704
<b>Blocks Available:</b>	To be offered twice during the M4 year: once in early summer and once in January
<b>Number of Students/ Block:</b>	8-24
<b>Faculty:</b>	Bindu Menon, Ph.D. Coral D. Matus, MD
<b>Elective Description/ Requirements:</b>	This elective places emphasis on identifying and interpreting pathophysiology associated with various disorders by focusing on application to clinical cases. The course intends to provide an opportunity for students to revisit and refresh normal physiology of the human body learned in the first two years in the backdrop of carefully chosen clinical vignettes. The students will also discuss clinical aspects such as diagnosis and management related to the representative cases. The course will consist of in-person sessions held 3 hours a day, five days per week. Approximately twenty modules, involving case discussions (chosen from the major organ systems) will be covered in total during the two-week period. Students are expected to do independent readings based on the topics for each module in preparation of the in-person sessions.
<b>Length of Clerkship:</b>	2 weeks
<b>Links to Core Competencies:</b>	<b>Educational Course Objectives:</b>
<b>MK-1, MK-2</b>	Explain the basic physiology of various tissues and organs.
<b>MK-3, MK-4.</b>	Explain the clinical significance of the alterations in the normal physiological processes in various organs/tissues.
<b>MK-5, MK-6, MK-7, PC-7, PC-8, PBL-7</b>	Explain how the clinical presentation and laboratory results that are used in the diagnosis are linked to the pathophysiology of the disorder.
<b>MK-16, PC-8, PBL-7</b>	Explain how the knowledge of pathophysiology associated with the disorder can drive the management of the disorder in a positive direction.
<b>Professionalism:</b>	Medical Students are held to the highest standards of professionalism and have several professional responsibilities that they are obligated to uphold. Breach of a professionalism standard will result in a professionalism behavior report based on the institutional policy.
<b>Instructional Methods:</b>	1. Self-directed learning to be completed by the students ahead of the sessions 2. Small group discussion of the selected cases 3. Summarization of the clinical and pathophysiological concepts related to each case
<b>Evaluation Methods:</b>	1. attendance 2. short quiz at the beginning of each module 3. submission of a written assignment based on one of the chosen modules in the end
<b>Prerequisites:</b>	Successful completion of foundational sciences curriculum (pass)

**Clerkship Director:** Bindu Menon, Ph.D.  
Coral D. Matus, MD

**Clerkship  
Coordinator:** Saraya Parnell  
**Phone Number:** 419-383-4406  
**Email:** [Saraya.parnell@utoledo.edu](mailto:Saraya.parnell@utoledo.edu)

**Special  
Requirements:** Notify coordinator for permission to enroll