

# Department of Human Morphology

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The Department of Human Morphology offers courses to medical students in the Faculty of Medicine and the School of Nursing, in addition to graduate courses in the graduate program leading to the MS degree.

Students applying to the graduate program should hold a bachelor of science degree or its equivalent. The department may ask for specific prerequisites in certain disciplines such as biology and chemistry as deemed necessary.

<b>HUMR 207</b>	<b>Gross Anatomy</b>	<b>24.198; 7 cr.</b>
A regional dissection of the entire human body supplemented by embryology, clinical lectures, and discussions. The student is also introduced to radiographic anatomy based on various imaging modalities, in addition to computer-assisted instruction. <i>Required of all medical students.</i>		
<b>HUMR 209</b>	<b>Basic Histology</b>	<b>58.69; 6 cr.</b>
A study of the cells, tissues, and organs of the human body at the level of the light and electron microscopes, utilizing traditional and advanced methodologies. Structure is related to function with some clinical application. <i>Required of all medical students.</i>		
<b>HUMR 246</b>	<b>Human Morphology for Nurses</b>	<b>32.32; 3 cr.</b>
An introduction to basic gross anatomy and histology. <i>Required of all nurses in the BS program.</i>		
<b>HUMR 305</b>	<b>General Histology</b>	<b>30.33; 3 cr.</b>
A course that consists of the first half of Basic Histology, HUMR 209, covering basically cells and tissues. <i>Open to graduate students outside the department.</i>		
<b>HUMR 307</b>	<b>Gross Anatomy</b>	
The same as HUMR 207. <i>Offered to graduate students in the department.</i>		
<b>HUMR 308 A</b>	<b>Neuroanatomy</b>	<b>28.39; 3 cr.</b>
The neuroanatomy component of Neuroscience, IDTH 208. <i>Offered to graduate students.</i>		
<b>HUMR 309</b>	<b>Basic Histology</b>	<b>58.69; 6 cr.</b>
Similar to HUMR 209. <i>Offered to all graduate students in the department.</i>		
<b>HUMR 310</b>	<b>Methods in Morphology</b>	<b>0.64; 2 cr.</b>
A guided laboratory course in methods used in morphology and cell biology research. <i>Open to graduate students.</i>		

<b>HUMR 312</b>	<b>Anatomy Tutorial</b>	<b>0.64; 2 cr.</b>
A guided literature review of special research topics.		
<b>HUMR 313</b>	<b>Directed Reading and Research</b>	<b>0.32-96; 1-3 cr.</b>
Specific reading and research assignments under supervision of an adviser. <i>At the discretion of the thesis supervisor.</i>		
<b>HUMR 314/315</b>	<b>Research Seminar</b>	<b>0.32; 1 cr.</b>
Presentation and discussion of timely research topics designated by members of the department.		
<b>HUMR 316</b>	<b>Principles of Electron Microscopy</b>	<b>32.0; 2 cr.</b>
Lectures on, and demonstration of, basic techniques of electron microscopy. <i>Alternate years.</i>		
<b>HUMR 318</b>	<b>Principles of Histochemistry</b>	<b>16.48; 3 cr.</b>
Lectures, demonstration, and laboratory work related to the principal techniques of histochemistry, including immuno-histochemistry. <i>Prerequisite: HUMR 305 or HUMR 309.</i>		
<b>HUMR 346</b>	<b>Human Morphology</b>	<b>48.32; 4 cr.</b>
A course that includes the embryology component of HUMR 207, the whole of HUMR 246, and an experimental anatomy part.		
<b>HUMR 397/398</b>	<b>MS Thesis</b>	<b>9 cr.</b>
Original research under faculty supervision leading to the MS degree.		
<b>IDTH 319</b>	<b>Biology of Nerve and Muscle</b>	
Equivalent to IDTH 309. <i>See Interdepartmental Teaching.</i>		
<b>HUMR 260</b>	<b>Elective in Human Morphology</b>	<b>0.180-360.</b>
An elective in which the student can select one or more disciplines within the department including applied immunology, general surgical anatomy, radiographic anatomy, experimental neuroanatomy, neuromuscular disorders, techniques for study of cells and tissues, and experimental neuropathology. <i>One to two months.</i>		