HUMAN ANATOMY AND CELL SCIENCE, M.SC.

Degree Requirements

Students are required to take Biomedical Trainee Skills (IMED 7410) plus 6 credit hours of approved coursework at the 7000 level. Students must then complete a thesis.

Mandatory attendance at seminars that are part of the Departmental Seminar Program is required.

A written research proposal must be submitted to the department for approval within six months of the student's entering the program.

Expected Time to Graduate: 2-3 years

Progression Chart

Course	Title	Hours
Year 1		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
IMED 7410	Biomedical Trainee Skills	3
ANAT/IMED 7XXX	Approved coursework designated 7000 level including at least one 3 CH course from the Core ANAT list below [1]	6
	Hours	**9**
Year 2		
GRAD 7000	Master's Thesis [2]	0
	Hours	**0**
	Total Hours	**9**

[1] The coursework required for an individual student will be specified in consultation with the student's faculty advisor, and will depend upon the student's background.

[2] M.Sc. students will normally be required to present at least one paper (poster or platform) at a scientific meeting before submission of their thesis for examination.

Approved Coursework

Course	Title	Hours
Core ANAT Courses		
ANAT 7380	Human Developmental Anatomy (Embryology)	3
ANAT 7392	Human Neuroanatomy	3
ANAT 7400	Morphological Techniques	3
ANAT 7468	Human Histology: Basic Tissues and Organ Systems	3
ANAT 7478	Human Gross Anatomy: Musculoskeletal	3
ANAT 7480	Human Gross Anatomy: Trunk (Thorax, Abdomen, Pelvis)	3
ANAT 7482	Human Gross Anatomy: Head and Neck	3
ANAT / IMED Electives [1]		
ANAT 7012	Advanced Brain Imaging Methods	1.5
ANAT 7014	Functional Human Anatomy	2
ANAT 7320	Introduction to Scanning and Transmission Electron Microscopy	3
ANAT 7330	Readings in Anatomy	3
IMED 7004	Human Brain Imaging Methods	1.5
IMED 7112	Fundamental Cellular Neurobiology	1.5
IMED 7114	Fundamental Neural Development and Plasticity	1.5
IMED 7302	Advanced Molecular Imaging	3

[1] Additional elective coursework at the 7000 level may be completed through other U of M departments/faculties, or include any of the listed ANAT / IMED elective courses taught by HACS faculty.