

# 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
<b>Year 1</b>		
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 <sup>1</sup>	6
<b>Hours</b>		<b>9</b>
<b>Year 2</b>		
GRAD 7000	Master's Thesis <sup>2</sup>	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>9</b>

<sup>1</sup> 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.

<sup>2</sup> 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
<b>Core ANAT Courses</b>		
ANAT 7380	Human Developmental Anatomy (Embryology)	3
ANAT 7392	Human Neuroanatomy	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
<b>ANAT / IMED Electives <sup>1</sup></b>		
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

<sup>1</sup> 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.