

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.

Attendance at the departmental seminar program is mandatory for all graduate students.

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 |
| Approved coursework designated 7000 level, including at least one 3 CH course from the following: ¹ | | 6 |
| ANAT 7322 | Ultrastructural Anatomy of the Cell | |
| ANAT 7380 | Human Developmental Anatomy (Embryology) | |
| ANAT 7392 | Human Neuroanatomy | |
| ANAT 7468 | Human Histology: Basic Tissues and Organ Systems | |
| ANAT 7478 | Human Gross Anatomy: Musculoskeletal | |
| ANAT 7480 | Human Gross Anatomy: Trunk (Thorax, Abdomen, Pelvis) | |
| ANAT 7482 | Human Gross Anatomy: Head and Neck | |
| 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. Additional elective coursework at the 7000 level may be completed through other U of M departments/faculties, or include any of the following ANAT / IMED elective courses taught by HACS faculty:

- ANAT 7012 Advanced Brain Imaging Methods
- ANAT 7014 Functional Human Anatomy
- ANAT 7320 Introduction to Scanning and Transmission Electron Microscopy
- ANAT 7400 Morphological Techniques
- IMED 7004 Human Brain Imaging Methods
- IMED 7112 Fundamental Cellular Neurobiology

- IMED 7114 Fundamental Neural Development and Plasticity
- IMED 7302 Advanced Molecular Imaging

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.