

MOLECULAR MEDICINE and TRANSLATIONAL SCIENCE GRADUATE PROGRAM
Sequence of Courses And Requirements For Doctoral Students Entering From The
Molecular And Cellular Biosciences Track

Enter as MCB 1st year graduate student
(Entering MD, DVM or DO students refer to MMTS policies and procedures for curriculum requirements)

Pre-courses/Orientation

MCB 700 Analytical Skills 1 hr
Perform three laboratory rotations from August through May (1 hr each)

Fall Semester (1st year)

MCB 701 Macromolecular Synthesis, Structure & Function, Gene Expression & Genetics 6 hr
 MCB 703-4 Fall 1 and 2 Lab Rotations 2 hr
 MCB Elective 2 hr
 GRAD 713 Scientific Professionalism: Scientific Integrity 1 hr
Total required hrs = 12

Spring Semester (1st year)

GRAD 701 Introduction to Professional Development 1 hr
 MCB 702 Cell Structure/Cell Communication, Organ Systems Integration – Physiology & Pathology 6 hr
 MCB 752 Foundations of Translational Science 2 hr
 MCB 705 Spring Lab Rotation 1 hr
 MCB Elective 2 2 hr
 GRAD 714 Scientific Professionalism: Scientific Integrity 1 hr
Total required hrs = 13

Near end of Spring Semester (1st year)

Submit choice of program and advisor
Become an MMTS graduate student

Summer Semester (1st year)

MMTS 791 Research 6 hr
Total required hrs = 6

During Summer Semester (1st year)

Choose clinical mentor

Fall Semester (2nd year)

MMTS 711 Translational Science Seminar Series 1 hr
 MMTS 715 Clinical Experience 1 hr
 STATISTICS (choose from three courses) 2-4 hr
 HES 721 Data Analysis & Interpretation 3 hr
 CPTS 730 Introduction to Statistics 4 hr
 IPP 741 Quantitative Methods in Behavioral Sciences 2 hr

MMTS 791 Research	TBD
Elective, if desired	TBD
<u>Total required hours = 9</u>	

Spring Semester (2nd year)

MMTS 712 Translational Science Seminar Series	1 hr
MMTS 716 Clinical Experience	1 hr
MMTS 724 Scientific Dev and Business of Science	3 hr
MMTS 792 Research	TBD
MCB 752 Foundations of Translational Science (if not taken in 1 st yr)	2 hr
Elective, if desired	TBD
<u>Total required hrs = 9</u>	

Summer Semester (2nd year and beyond)

MMTS 791 Research	6 hr
<u>Total required hrs = 6</u>	

All fall and spring semesters after 2nd year

MMTS 711/712 Translational Science Seminar Series	1 hr
MMTS 791/792 Research	TBD
Electives, if desired	TBD
<u>Total required hrs = 9</u>	

Preliminary exam must be completed by September 1 at the beginning of the student's 3rd year.

MD, DVM or DO students enter MMTS as 2nd year students. Preliminary exam for MD, DVM or DO students must be completed by September 1 at the beginning of the student's 3rd year.

Additional desired electives may be taken in any semester from 2nd year on, but none are required.

Total required semester hours for 5 years (last spring semester is Thesis Only)

MCB	24 hr
GRAD	3 hr
MMTS/Other Program (didactic)	5 hr
MMTS (seminar/experiential)	8 hr
MMTS (research/electives)	74 hr

Total = 114

Elective coursework, as desired, is permitted and should be approved by the student's advisor and advisory committee.