

**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 1<sup>st</sup> 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 Molecular and Cellular Biosciences A 6 hr  
MCB 703 Introduction to MCB Research (1st Lab Rotation) 1 hr  
MCB Elective 1 2 hr  
GRAD 713 Foundations of Scientific Integrity and Professionalism 1 hr  
GRAD 715 Career Planning in the Biomedical Sciences 1 hr  
Total required hrs = 12

**Spring Semester (1st year)**

MCB 702 Molecular and Cellular Biosciences B 6 hr  
MCB 704-5 Introduction to MCB Research (2<sup>nd</sup> and 3<sup>rd</sup> Lab Rotations) 2 hr  
MCB 752 Foundations of Translational Science 2 hr  
MCB Elective 2 2 hr  
GRAD 714 Scientific Integrity and Professionalism 2 hr  
GRAD 716 Seminars in Professional Development 1 hr  
Total required hrs = 15

**Near end of Spring Semester (1<sup>st</sup> 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 (1<sup>st</sup> 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 one of three courses) 3-4 hr  
HES 721 Data Analysis & Interpretation 3 hr  
CPTS 730 Introduction to Statistics 4 hr

IPP/NEUR 741 Quantitative Methods in Behavioral Sciences	3 hr
MMTS 791 Research	TBD
Elective, if desired	TBD
<u>Total required hrs = 9</u>	

**Spring Semester (2nd year)**

MMTS 712 Translational Science Seminar Series	1 hr
MMTS 716 Clinical Experience	1 hr
MMTS 724 Scientific Development and Business of Science	3 hr
MMTS 792 Research	TBD
MCB 752 Foundations of Translational Science (if not taken in 1 <sup>st</sup> 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 Sept. 1 at the beginning of the student's 3rd year.*

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

*Additional electives may be taken any semester from 2<sup>nd</sup> year on, but none are required.*

**Total required semester hours for 5 years**

MCB	22 hr
GRAD	5 hr
MMTS/Other Program (didactic)	5 hr
MMTS (seminar/experiential)	8 hr
MMTS (research/electives)	74 hr

**Total = 114 hr**

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