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 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 (2nd and 3rd 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 (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 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
Total required hrs = 9

**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 1st yr) 2 hr
Elective, if desired TBD
Total required hrs = 9

**Summer Semester (2nd year and beyond)**
MMTS 791 Research 6 hr
Total required hrs = 6

**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
Total required hrs = 9

*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 2nd year students. Preliminary exam for MD, DVM or DO students must be completed by Sept. 1 at the beginning of the student’s 3rd year.*

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

**Total required semester hours for 5 years**

<table>
<thead>
<tr>
<th>Category</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MCB</td>
<td>22 hr</td>
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<tr>
<td>GRAD</td>
<td>5 hr</td>
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<tr>
<td>MMTS/Other Program (didactic)</td>
<td>5 hr</td>
</tr>
<tr>
<td>MMTS (seminar/experiential)</td>
<td>8 hr</td>
</tr>
<tr>
<td>MMTS (research/electives)</td>
<td>74 hr</td>
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</tbody>
</table>

Total = 114 hr

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