

Class of 2025 Graduation Requirements

Master of Science in Translational Medicine (MSTM)

Keck Graduate Institute School of Applied Life Science Irell
and Manella Graduate School of Biological Sciences at City
of Hope

Students in the MSTM program must complete 60.0 credits over two years of study. Of the 60.0 total credits, students must complete 9.0 credits of Core courses, 1.5 credits of Professional Development courses, 16.5 credits of Advanced Technical and General Elective courses, 3.0 credits of Independent Research, and 30.0 credits of Master's Research Thesis.

Program Requirements

Core Requirements	Credits
Core Science (C)	9.0
Professional Development (PD)	1.5
Advanced Technical (AT) and General Electives	16.5
Independent Research	3.0
Master's Research Thesis	30.0
Subtotal	60.0

Curriculum

All students must complete the following courses: Core Science (C), Professional Development (PD), Advanced Technical (AT), Independent Research, and Thesis Capstone to graduate with the MSTM degree. Thesis contracts must be submitted during April/May of the first year of the studies. Please refer to the RES 6220 Master's Research Thesis syllabus for more information. Most courses are held at KGI. Courses marked in red take place at the City of Hope.

1 st Year Fall Core Courses	Credits	1 st Year Spring Core Courses	Credits
SCI 5000 Molecular Biotechnology (C)	1.5	SCI 5100 Molecular Basis of Dis. (C)	1.5
SCI 5300 Pharmaceutical Disc. (C)	1.5	SCI 6100 Pharmacogenomics and Precision Medicine (AT)	1.5
SCI 5310 Pharmaceutical Development (C)	1.5	SCI 6300 Advanced Pharmaceutical Discovery (AT)	1.5
SCI 6401 Fundamental Papers in Molecular Biology and Biotech. (C)	1.5	SCI 6301 Advanced Pharmaceutical Discovery Lab (AT)	1.5
MATH 5020 Clinical Biostatistics (AT)	3.0	SCI 6410 Fundamental Papers in Applied Medicine (C)	1.5
RES 6000 Independent Research	1.5	RES 6000 Independent Research	1.5

1 st Year Summer	Credits
RES 6220 Master's Research Thesis	0.0

2 nd Year Fall Core Courses	Credits	2 nd Year Spring Core Courses	Credits
RES 6220 Master's Research Thesis	15.0	RES 6220 Master's Research Thesis	15.0
PDEV 5100 Professional Development (PD)	0.0	PDEV 5220 Healthcare/Life Sci. Ethics (PD)	1.5