

# MS Program Curriculum

## Program Requirements

Course Requirements	Credit(s)
Core Science & Professional Development Courses	15.0
Electives (Including the following intersecting requirements)	33.0
Advanced Technical and General Electives (including Concentration-Required Courses)	
Capstone Project/Research Thesis/TMP	
<b>Subtotal</b>	<b>48.0</b>

## Core Science and Professional Development Courses

All students must complete the Core Science and Professional Development courses to complete the MS in Applied Life Sciences. Students who have taken PDEV 5400 as part of their PPC/PPA program are not required to take PDEV 5100.

Course Number	Course Name	Credit(s)
MATH 5020	Clinical Biostatistics	3.0
PDEV 5100	Professional Skills Development	0.0
PDEV 5220	Healthcare and Life Sciences Industry Ethics	1.5
SCI 5000	Molecular Biotechnology	1.5
SCI 5100	Molecular Basis of Disease	1.5
SCI 5300	Pharmaceutical Discovery	1.5
SCI 5310	Pharmaceutical Development	1.5
SCI 6000	Advanced Molecular Biotechnology	1.5

SCI 6100	Pharmacogenomics and Precision Medicine	3.0
<b>Subtotal</b>		<b>15.0</b>

## Advanced and General Technical Electives

All MS students are required to complete additional credits of any KGI courses to achieve the required 48.0 credit total. Students are encouraged to consult with the MS program director for course selection. Not all electives are offered every year. Refer to the Henry E. Riggs School of Applied Life Science course list for course designation information.

### Concentrations

Concentrations available to Master of Science in Applied Life Sciences students:

- Translational Research (TR)
- Clinical Research (CR)
- Public Health Research (PHR)
- Community Medicine Research (CMR)
- Infectious Diseases Research (IDR)
- Bioprocessing Research (BPR)
- Regulatory Affairs Research (RAR)
- Team Master's Project (TMP)