## Master of Science in Precision Medicine Curriculum (For Students Entering Summer 2023 and Later)

Degree Type
Master of Science (M.S.)

Master of Science (M.S.)		
Year 1		
Summer Quarter		
Course Code	Title	Credits
PMMSG 501	Introduction to Genetics and Genomics	2.0
PMMSG 502	Genomics of Rare and Complex Diseases	3.0
PMMSG 503	Introduction to Bioinformatics, Statistics, and Data Interpretation	3.0
	Sub-Total Credits	8
Fall Quarter		
Course Code	Title	Credits
	Precision Medicine Elective	1
	Sub-Total Credits	1
Winter Quarter		
Course Code	Title	Credits
	Precision Medicine Elective	1
	Sub-Total Credits	1
Spring Quarter		
Course Code	Title	Credits
PMMSG 504	'Omics and Biomarkers	3.0
	Sub-Total Credits	3
Year 2		
Summer Quarter		
Course Code	Title	Credits
PMMSG 601	The Application of Precision Medicine to Cancer	3.0
PMMSG 602	Pharmacogenomics	2.0
PMMSG 603	Microbial Genetics, the Microbiome, and Infectious Diseases	3.0
PMMSG 604	Ethical, Legal, and Social Issues of Precision Medicine	1.0
PMMSG 605	Counseling and Communication Skills for Precision Medicine	1.0
	Sub-Total Credits	10
Fall Quarter		
Course Code	Title	Credits
Course Code PMMSG 606	Title Introduction to Personal Genomic Analysis, Genomics Laboratory, Part 1	Credits 1.0
	Introduction to Personal Genomic Analysis, Genomics Laboratory, Part 1  Sub-Total Credits	1.0
PMMSG 606	Introduction to Personal Genomic Analysis, Genomics Laboratory, Part 1  Sub-Total Credits	1.0
PMMSG 606  Winter and Spring Quarte	Introduction to Personal Genomic Analysis, Genomics Laboratory, Part 1  Sub-Total Credits  ers	1.0
PMMSG 606  Winter and Spring Quarte  Course Code	Introduction to Personal Genomic Analysis, Genomics Laboratory, Part 1  Sub-Total Credits  ers  Title	1.0 1 Credits
PMMSG 606  Winter and Spring Quarte  Course Code	Introduction to Personal Genomic Analysis, Genomics Laboratory, Part 1  Sub-Total Credits  ers  Title  Capstone Project, Genomics Laboratory Part 2  Sub-Total Credits	1.0 1 Credits 2.0
PMMSG 606  Winter and Spring Quarte  Course Code  PMMSG 607	Introduction to Personal Genomic Analysis, Genomics Laboratory, Part 1  Sub-Total Credits  ers  Title  Capstone Project, Genomics Laboratory Part 2  Sub-Total Credits	1.0 1 Credits 2.0
PMMSG 606  Winter and Spring Quarter  Course Code  PMMSG 607  Winter or Spring Quarter	Introduction to Personal Genomic Analysis, Genomics Laboratory, Part 1  Sub-Total Credits  ers  Title  Capstone Project, Genomics Laboratory Part 2  Sub-Total Credits	1.0 1 Credits 2.0 2

## Electives - Students complete four elective courses. Not all electives may be offered in every academic quarter.

Course Code	Title	Credits
PMMSG 801	Application of Precision Medicine to Inflammatory and Autoimmune Disease	1.0
PMMSG 802	The Application of Precision Medicine to Neurological Diseases	1.0
PMMSG 803	Application of Precision Medicine to Cardiovascular Diseases	1.0
PMMSG 804	Advanced Topics in Pharmacogenomics	1.0
PMMSG 805	A One Health Approach to Genomics and Precision Medicine	1.0
PMMSG 806	Epigenomics and Functional Genomics in Health and Disease	1.0
PMMSG 807	Genetic Technologies for the Treatment of Disease	1.0
PMMSG 808	Precision Medicine Journal Club	1.0
PMMSG 809	Understanding and Interpreting Direct-to-Consumer Genetic Testing	1.0
	Sub-Total Credits	9
Total Credits	46	