

Post-Graduate Certificate in Precision Medicine Curriculum (Students Entering Summer 2022 and Later)

Degree Type

Post-Graduate Certificate

Year 1

Summer Quarter

Course Code	Title	Credits
PMGCG 501	Introduction to Genetics and Genomics	2.0
Sub-Total Credits		2

Fall Quarter

Course Code	Title	Credits
PMGCG 502	Genomics of Rare and Complex Diseases	3.0
Sub-Total Credits		3

Winter Quarter

Course Code	Title	Credits
PMGCG 503	Introduction to Bioinformatics, Statistics, and Data Interpretation	2.0
Sub-Total Credits		2

Spring Quarter

Course Code	Title	Credits
PMGCG 504	'Omics and Biomarkers	3.0
Sub-Total Credits		3

Year 2

Summer Quarter

Course Code	Title	Credits
PMGCG 601	The Application of Precision Medicine to Cancer	3.0
Sub-Total Credits		3

Fall Quarter

Course Code	Title	Credits
PMGCG 602	Pharmacogenomics	2.0
	Precision Medicine Elective	1
Sub-Total Credits		3

Winter Quarter

Course Code	Title	Credits
PMGCG 603	Microbial Genetics, the Microbiome, and Infectious Diseases	2.0
Sub-Total Credits		2

Spring Quarter

Students complete three elective courses. Not all electives may be offered in every academic quarter.

Course Code	Title	Credits
PMGCG 604	Ethical Legal and Social Issues of Precision Medicine	1.0
PMGCG 605	Counseling and Communication skills for Precision Medicine	1.0
	Precision Medicine Elective	1
Sub-Total Credits		3

Electives

Course Code	Title	Credits
PMGCG 801	Application of Precision Medicine to Inflammatory and Autoimmune Disease	1.0
PMGCG 802	The Application of Precision Medicine to Neurological Diseases	1.0
PMGCG 803	Application of Precision Medicine to Cardiovascular Diseases	1.0
PMGCG 804	Advanced Topics in Pharmacogenomics	1.0
PMGCG 805	A One Health Approach to Genomics and Precision Medicine	1.0
PMGCG 806	Epigenomics and Functional Genomics in Health and Disease	1.0
PMGCG 807	Genetic Technologies for the Treatment of Disease	1.0
PMGCG 808	Precision Medicine Journal Club	1.0
PMGCG 809	Understanding and Interpreting Direct-to-Consumer Genetic Testing	1.0
PMG 810	Independent Study	0.5-6
Sub-Total Credits		9
Total Credits		30