

California State University, Stanislaus
Genetic Counseling (MS)
Curriculum Map

Program Learning Outcomes	Courses Providing Core Concepts and Learning Outcomes Aligned with the Program Learning Outcomes																			
	5100 Principles of Human Genetics	5200 Clinical Embryology	5301 Principles and Practices of Genetic Counseling	5400 Clinical Cytogenetics	5402 Clinical Cytogenetics Lab	5966 Graduate Seminar in Genetics	5600 Advanced Medical Genetics	5700 Molecular and Biochemical Genetics	5302 Principles and Practices of Genetic Counseling	5800 Cancer Genetics	5967 Graduate Seminar in Genetics	5940 Internship in Biology	5303 Principles and Practices of Genetic Counseling	5966 Graduate Seminar in Genetics	5940 Internship in Biology	5968 Research Methods and Professional Skills	5960 Research Project	5967 Graduate Seminar in Genetics	5304 Principles and Practices of Genetic Counseling	5940 Internship in Biology
Knowledge based mastery of human genetic diseases – Graduate Learning Goal 1																				
Inheritance patterns	I		R			R	A	R	R	R	R	A	R	R	A	R	R	R	R	A
Clinical manifestations	I	R		I	I	R	A	R	R	A	R	A	R	R	A	R	R	R	R	A
Family history, pedigrees	I		I	R		R	A	R	R	A	R	A	R	R	A	R	R	R	R	A
Recurrence risk calculations	I	I	I	I		R	A	R	R	R	R	A	R	R	A		R	R	R	A
Population genetics	I					R	R	R	R	R	R	R	R	R	R	R	R	R		A
Cancer genetics	I		I	A	R	R	R	A	R	A	R	A	R	R	A			R	R	A
Molecular, biochemical, and cytogenetic basis of diseases	I	I	I	I	I	R	R	A	R	R	R	A	R	R	A	R	R	R	R	A
Embryologic, anatomic, and physiological features		I		R			R	R		R		A			A					A
Diagnostic tests and screening methods	I	R	R	I	I	R	A	A	R	A	R	A	R	R	A	R	R	R	R	A
Prevention and Treatment				I		I	I	R	R	R	R	A	R	R	A	R	R	R	R	A
Understanding of individual and group psychosocial theories and counseling principles																				
Interviewing techniques			I						R			A	R		A				R	A
Decision making			I				R	R	R	R		A	R		A				R	A
Psychosocial assessment			I	I		R	R		R	R		A	R	R	A	R	R	R	R	A
Family systems			I			R	R		R	R	R	A	R	R	A		R	R	R	A
Grief and bereavement			I	R		R	R		R	R	R	A	R	R	A			R	R	A
Crisis intervention									I			R	R		R				R	

Note: I = Element is introduced R = Element is reinforced A = Element is addressed at an advanced level

Program Learning Outcomes	Courses Providing Core Concepts and Learning Outcomes Aligned with the Program Learning Outcomes																			
	Principles of Human Genetics	Clinical Embryology	Principles and Practices of Genetic Counseling	Clinical Cytogenetics	Clinical Cytogenetics Lab	Graduate Seminar in Genetics	Advanced Medical Genetics	Molecular and Biochemical Genetics	Principles and Practices of Genetic Counseling	Cancer Genetics	Graduate Seminar in Genetics	Internship in Biology	Principles and Practices of Genetic Counseling	Graduate Seminar in Genetics	Internship in Biology	Research Methods and Professional Skills	Research Project	Graduate Seminar in Genetics	Principles and Practices of Genetic Counseling	Internship in Biology
Critical Thinking Skills – Graduate Learning Goal 2																				
Differential diagnosis		I	I	I	R	R	A	A	R	A	R	A	R	R	A	R		R	R	A
Laboratory interpretations	I	I	I	I	R	R	A	A	R	A	R	A	R	R	A	R	R	R	R	A
Critiques of journal articles													I		R	A	A		R	R
Research methodologies						I	I	I	R	R	R	R		R	R	A	A	R	R	R
Awareness of Ethical, Legal, and Social Issues in Genetic Counseling																				
Code of Ethics	I	I	I			R	R	R	R	R	R	R	A	R	R	R	R	R	R	R
Cultural differences			I			R	R	R	R	R	R	A	R	R	A	R	R	R	R	A
Societal/public policy issues	I					R	R		R		R	R	R	R	R	R	R	R	A	R
Genetic discrimination	I		I			R	R	R	R		R	R	R	R	R	R		R	R	R
IRB policies, HIPAA rules							I	I	I	R	R	R	R	R	R	A	R	R	R	R
Professional Skills																				
Case documentation, coordination, management			I				R		A	R		A	R		A		R		R	A
Utilization of databases and genetics literature	I		I	R	R	R	R	R	R	R	R	A	R	R	A	A	A	R	R	A
Referral services			I						A			AA			A					A
Research methodology					I	I	I	I	I	I	I		I	R		A	A	R	R	
Effective Communication Skills – Graduate Learning Goal 6																				
Interpersonal skills			I						R			A	R		A				R	A
Team environment			I						R			A	R		A				R	A
Clinical case presentations			I			R	A	R	R	R	R	R	R	R	A	A	R	R	R	R
Educational presentations																				
Note: I = Element is introduced R = Element is reinforced A = Element is addressed at an advanced level																				