

OSU GCGP Prerequisite Course Content Requirements

Please cross reference the below checklist with topics listed on your syllabi; these may be listed in multiple sections of the syllabus. You can also use Ctrl+F to search PDFs or Word documents.

If after comparing you still have questions, reach out to us at OhioStateGCPProgram@osumc.edu.

All prerequisite coursework must be taken at an accredited college or institution. Introductory courses will suffice.

BIOCHEMISTRY	
Notes:	n/a
Check mark	Topic
	Cell structure and function
	Metabolism
	Respiration (i.e. biochemical/cellular pathways)
	Genetic replication
	Transcription
	Translation in plants, animals, and microorganisms

STATISTICS	
Notes:	Statistics with life science applications will likely be more helpful in preparation for the genetic counseling curricula, but is not required.
Check mark	Topic
	Probability and statistics
	Experimental designs
	Sampling
	Data analysis and interpretation

GENETICS	
Notes:	In addition to the topics mentioned below, human genetics courses that cover principles of human genetics, including mapping and identification of disease genes, animal models, genetic testing and gene therapy will suffice.
Check mark	Topic
	Molecular genetic principles
	Transmission genetics of prokaryotes and eukaryotes
	Developmental and non-chromosomal genetics (i.e. Mendelian and non-Mendelian molecular causes of disease)
	Recombinant DNA and genomics
	Genetics and evolution of populations

PSYCHOLOGY	
Notes:	n/a
Check mark	Topic
	Introduction to psychological theories, principles, and concepts relevant to the biology of behavior
	Sensation/perception
	Consciousness
	Memory
	Learning
	Intelligence
	Development
	Social psychology
	Personality
	Stress and health
	Psychopathology and treatments, and its application to human experiences