

Plant Breeding Courses

* Courses below in BOLD are required courses

Updated within the last year

Call Number	Course Name	MS	PhD	Instructor	Credits	Fall 2020	Spr 2021	Su 2021	Fall 2021	Spr 2022	Su 2022	Fall 2022	Spr 2023	Su 2023	Fall 2023	Spr 2024	Su 2024	Fall 2024	Spr 2025	Su 2025	Fall 2025	Spr 2026	Su 2026	
PBGG (CRSS) 6000	Plant Breeding Practicum	X		Brown, Parrott, Mergoum	3			X			X			X			X			X			X	every summer
PBGG (CRSS) (HORT) 4/40/6140	Plant Breeding	X		Cecilia McGregor	3	X			X			X			X			X						every Fall
PBGG 8000 (for PhD students taking Practicum Summer 2026 or after)	Advanced Plant Breeding Practicum		X	Brown, Parrott, Mergoum	3																		X	every summer, beginning Sum26
PBGG 8001 (for students that took PBGG 6000 in MS program)	Advanced Plant Breeding Proficiency		X	Brown, Parrott, Mergoum	1																		X	every summer, beginning Sum26
PBGG (CRSS) (HORT) 8140	Advanced Plant Breeding		X	Ali Missaoui	3				X						X									Fall of odd years
PBGG (CRSS) (HORT) 8860	PBGG Communications Seminar		X	Parrott, Bertoli, Wallace	1		X			X		X	X		X	X		X	X					every Fall and Spring
PBGG (CRSS) (HORT) 8861	PBGG Research Seminar	X	X	Parrott, Bertoli, Wallace	1		X			X		X	X		X	X		X	X					every Fall and Spring
PBGG (HORT) 8102	Ornamental Plant Genomics	X	X	Lav Yadav	3					X						no						X		Spring of even years, beginning SPR26
CRSS (PBGG) 8010	Research Methods Crops		X	Jason Wallace / Phillip Vines	3							X						X						every Fall
PBGG (CRSS) (HORT) 8870	Translational Genomics		X	Dayton Wilde	3		X																	not currently offered
PBGG (CRSS) (HORT) (PBIO) 8871	Genome Analysis & Comparative Genomics		X	Katrien Devos	1					X						X								Spring of even years
PBGG (CRSS) (HORT) (PBIO) 8872	QTL Mapping & Discovery		X	Peng Chee	1	X				X						X								Spring of even years
PBGG (CRSS) (HORT) 8873	Transgenic Breeding		X	Parrott & Wilde	1				X						X									Fall of odd years
PBGG (CRSS) (HORT) 8874	Genomic Selection		X	Jason Wallace	1		X						X						X					Spring of odd years
PBGG (CRSS) (HORT) 8875	Genome-Wide Association in Plants		X	Jason Wallace	1		X						X						X					Spring of odd years
PBGG (CRSS) 8880	Plant Quantitative Genetics & Molecular Breeding		X	Zenglu Li	3					X						X								Spring of even years
PBGG (CRSS) 8890	Plant Cytogenetics: Behavior & Evolution of the Plant Genome	X	X	Wayne Parrott	3		X						X						X					Spring of odd years
PBGG (CRSS) (HORT) 8900	Emerging Topics in PBGG			*Variable, not offered on a regular basis	1-3																			
GRSC 7001	GradFIRST	X	X																					
by request:																								
PBGG 4690	Research Experience in PBGG			variable	1-12																			POD; added by request
PBGG 4960R	Faculty-Mentored Undergraduate Research I			variable	1-6																			POD; added by request
PBGG 4970R	Faculty-Mentored Undergraduate Research II			variable	1-6																			POD; added by request
PBGG 4980R	Faculty-Mentored Undergraduate Research III			variable	1-6																			POD; added by request
PBGG 4990R	Undergraduate Research Thesis			variable	1-6																			POD; added by request
PBGG 9990	Supervised Teaching Practicum in PBGG		X	variable	1-3																			POD; added by request

Suggested Electives

Course descriptions can be found in [UGA Bulletin](#)

Call Number	Course Name	MS	PhD
ALDR 7500E	Leading Team & Organizational Developmt	X	X
BCMB 6000	General Biochemistry and Molecular Biology	X	
BCMB 6010	Biochemistry and Molecular Biology I	X	
BCMB 6020	Biochemistry and Molecular Biology II	X	
BCMB (ENTO) (BTEC) 4200/ 6200	Biotechnology	X	
BCMB 8010	Advanced Biochemistry and Molecular Biology I		X
BINF 6003	Introduction to Computer Programming for Biologists	X	X
BINF 8210	Computational Methods in Bioinformatics		X
BINF 8211	Adved Methods for Biological Data Analyses		X

Call Number	Course Name	MS	PhD
BINF 8441	Statistical Inference f/Life Sciences		X
BINF 8950	Systems Biology		X
CRSS 7990	Supervised Teaching Practicum in Crop and Soil Sciences	X	X
CRSS 8010	Research Methods		X
EDHI 9010	Academic Programs in Higher Education	X	X
ENTO (CRSS) (PATH) 6250-6250L	Pesticides and Transgenic Crops	X	
ENTO (CRSS) (PATH) 6740-6740L	Integrated Pest Management	X	
FANR 6750	Experimental Methods in Forestry and Natural Resources Research	X	
FANR (BINF) (GENE) 8140	Functional Genomics		X
GENE 4200/6200	Advanced Genetics	X	
GENE 8650	Responsible Science		X
GENE 8920	Nucleic Acids		X
GENE 8930	Advanced Molecular Genetics		X
GENE 8940	Genome Analysis		X
GRSC 8510	Professional Development for IPS students		X
GRSC 8550	Responsible Conduct in Research	X	X
HORT 8104	Advanced Plant Physiology		X
HORT 8150	Growth and Development of Horticultural Crops		X
HORT (ECOL) (PBGG) 8390	Conservation of Plant Genetic Resources	X	X
PATH 6280-6280L	Diagnosis and Management of Plant Diseases	X	X
PATH 6910	Genetics of Host Plant Resistance to Disease		X
PATH 8240	Plant Nematology	X	X
PATH 8400	Host Pathogen Interactions	X	X
PBIO 6500	Introduction to Gene Technology	X	
PBIO (BIOL) 6550	Bioinformatics Applications	X	X
PBIO 6700	Computational Plant Science	X	X
PBIO 8100	Plant Genetics		X
PBIO 8200	Grant Writing with Focus on Plants/Microbes	X	X
PBIO 8820	Plant Genetics and Molecular Biology Seminar	X	X
PBIO 8930	Science Writing for General Audiences	X	X
STAT 6210	Statistical Methods I	X	
STAT 6220	Statistical Methods II	X	
STAT 6230	Applied Regression Analysis	X	
STAT 6315	Statistical Methods for Researchers	X	
STAT 4360/6360	Statistical Software Programming		X
STAT 6630	Statistical Methods in Bioinformatics I	X	
STAT 6640	Statistical Methods in Bioinformatics II	X	X
STAT 8090	Statistical Analysis of Genetic Data		X
STAT 8200	Design of Experiments for Research Workers		X