

NAME: _____

ID#: _____

IN EFFECT SPRING 2021:**GENETICS CURRICULUM (GENE)****FRESHMAN YEAR**

ENGL 1100 English Comp I.....	3	ENGL 1120 English Comp II.....	3
MATH 1610 Calculus I.....	4	CORE HISTORY I.....	3
CHEM 1030 Fund. of Chemistry I ¹	3	CHEM 1040 Fund. of Chemistry II ¹	3
CHEM 1031 Chem I Lab	1	CHEM 1041 Chem II Lab	1
BIOL 1020 Principles of Biol	3	BIOL 1030 Organismal Biol	3
BIOL 1021 Principles of Biol Lab.....	1	BIOL 1031 Organismal Biol Lab	1
BIOL 2100 Professional Dev	1		
	16		14

SOPHOMORE YEAR

CHEM 2070 Organic Chem I	3	CHEM 2080 Organic Chem II.....	3
CHEM 2071 Organic I Lab.....	1	CHEM 2081 Organic II Lab.....	1
CORE HIST or LITERATURE	3	BIOL 3030 Evolution and Systematics	3
CORE HUMANITIES OR SOCIAL SCI.....	3	BIOL 3020 Genom. Bio or Micro 3200/01.4	3
BIOL 3000 Genetics	3	STAT 2510 Stat for Biol and Health	3
BIOL 3001 Genetics Lab	1		
	14		14

JUNIOR YEAR

CORE LITERATURE	3	BIOL 5220 Molecular Genetics	3
BIOL 5800 Computational Biol	3	BIOL 4100 Cell Biology	3
CORE SOCIAL SCIENCE	3	BIOL 4101 Cell Biology Lab.....	2
PHYS 1500 Physics 1	4	CORE FINE ARTS	3
BCHE 5180 Biochemistry I	3	CORE SOCIAL SCIENCE ²	3
	16		14

SENIOR YEAR

GENE CORE Elective	5	BIOL 5330 Developmental Gen.....	3
GENE SUPP Elective	5	GENE CORE Elective.....	3
CORE HUMANITIES	3	GENE SUPP Elective	5
FREE ELECTIVE	3	BIOL 4950 Senior Seminar.....	1
	16	FREE ELECTIVE	4
			16

TOTAL HOURS 120

Long range schedules for COSAM courses are online at <http://aub.ie/cosamlrs>

Courses in **BOLD** will be used to calculate GPA in major.

Options for courses labeled CORE are in the Auburn University Bulletin (www.auburn.edu/bulletin) under Core Curriculum.

¹The Chemistry 1110/1111-1120/1121 sequence can substitute for CHEM1030/1031-1040/1041. See advisor for details.

Genetics Electives

GENE CORE Electives

BIOL 3020 Genomic Biology (4)
BIOL 4150 Human Genetics (3)
BIOL 5260 Prokaryotic Molecular Genetics (3)
BIOL 5320 Plant Gene Expression (3)
BIOL 5521 Gene Exp & Recom DNA (2)
BIOL 5850 Functional Genomics (3)
BIOL 5860 Bioinformatics and Genome Analysis (3)

GENE SUPP Electives

Any additional GENE CORE Elective

BIOL 3200/01 Microbiology (4)
BIOL 4410 Vertebrate Development (5)
BIOL 4920 Internship (up to 4)
BIOL 4970 Special Topics (as appropriate: i.e. Genetics of Mammalian Disease)
BIOL 4980 UG Research (up to 6)
BIOL 5050 Fundamentals of Biophysics (3)
BIOL 5230 Virology (3)
BIOL 5500 Immunology (3)
BIOL 5550 Nanomedicine (3)
BIOL 5600 Mammalian Physiology (5)
BCHE 5190 Biochemistry II (3)
PHYS 1510 College Physics II (4)
AGRI 3000 Agricultural Genetics (4)
ANSC 3500 Animal Breeding (3)
APBT 1000 Introduction to Applied Biotechnology (1)
APBT 3100 Applied Biotechnology I (4)
APBT 4100 Applied Biotechnology II (4)
CSES 5100/5103 Plant Genetics and Crop Improvement (3)
FORY 3200 Forest Tree Physiology (3)