

Name: _____

UIN: _____

Genetics Degree Plan (Fall 2020)

Major Coursework (C or Better) -33 Hours			
Course	Semester Taken	Hours	Grade
GENE 101		1	
GENE 302		3	
GENE 312		1	
GENE 412		3	
GENE 431		3	
*GENE 432		2	
GENE Elective		3	
GENE Elective		3	
BICH 409		3	
BICH 450		4	
GENE 419		3	
GENE 491		3	
GENE 491W		1	

Supporting Coursework -29 Hours			
Course	Semester Taken	Hours	Grade
BIOL 111		4	
BIOL 112		4	
*BIOL 351		4	
^CHEM 227		3	
^CHEM 237		1	
^CHEM 228		3	
^CHEM 238		1	
STAT 211		3	
STAT 212		3	
STAT 404		3	

Life & Physical Sciences -16 Hours			
Course	Semester Taken	Hours	Grade
CHEM 119		4	
CHEM 120		4	
PHYS 201		4	
PHYS 202		4	

Communication -6 Hours			
Course	Semester Taken	Hours	Grade
ENGL 104		3	
ENGL 210		3	

Mathematics -8 Hours			
Course	Semester Taken	Hours	Grade
*MATH 151		4	
*MATH 152		4	

**Language, Philosophy & Culture -3 Hours			
Course	Semester Taken	Hours	Grade
		3	

International & Cultural Diversity -3 Hours			
Course	Semester Taken	Hours	Grade
		3	

**Creative Arts -3 Hours			
Course	Semester Taken	Hours	Grade
		3	

Cultural Discourse - Hours			
Course	Semester Taken	Hours	Grade
		3	

**Social & Behavioral Sciences -3 Hours			
Course	Semester Taken	Hours	Grade
		3	

Electives -7 Hours			
Course	Semester Taken	Hours	Grade

American HIST & GOVT/POLS: 12 hours			
Course	Semester Taken	Hours	Grade
HIST _____		3	
HIST _____		3	
POLS 206		3	
POLS 207		3	

HS Foreign Language (2 years): _____

^must attain a grade of c or better for credit
**has alternative courses*

~if courses do not overlap, then courses come from electives
***courses can overlap with International & Cultural Diversity*

KEY:

BICH 409	Comprehensive Biochemistry
BICH 450	Genomics (cross-listed with BIOL 350)
BIOL 111	Introductory Biology I
BIOL 112	Introductory Biology II
*BIOL 351	Microbiology (Writing Intensive)
CHEM 119	Fundamentals of Chemistry I
CHEM 120	Fundamentals of Chemistry II
CHEM 227	Organic Chemistry I
CHEM 237	Organic Chemistry I Lab
CHEM 228	Organic Chemistry II
CHEM 238	Organic Chemistry II Lab
CHEM 327	Physical Chemistry I
CHEM 328	Physical Chemistry II
ENGL 104	Composition & Rhetoric
ENGL 210	Technical & Business Writing
GENE 101	Perspectives in Biochemistry and Genetics (cross-listed with GENE 101)
GENE 302	Principles of Genetics
GENE 312	Comprehensive Genetics Lab
GENE 412	Population Genetics
GENE 419	Computational Techniques for Evolutionary Analysis
GENE 431	Molecluar Genetics (cross-listed with BICH 431)
*GENE 432	Molecluar Genetics Lab (cross-listed with BICH 432; Writing Intenstive)
GENE 491	Research
*MATH 151	Engineering Math I (Calculus I)
*MATH 152	Engineering Math II (Calculus II)
PHYS 201	College Physics I
PHYS 202	College Physics II
POLS 206	American National Government
POLS 207	State & Local Government
STAT 211	Principles of Statistics I
STAT 212	Principles of Statistics II
STAT 404	Statistical Computating

American History Electives: Select from HIST 105, 106, or other acceptable American History courses. May use 3 hours of Texas History for this requirement; may overlap with ICD/CD (i.e. HIST 258 ...others available).

Creative Arts Elective: Refer to core curriculum list; may overlap with ICD/CD (i.e. ARTS 150; ENDS 101; THAR 201 ...others available).

Elective: Any course not used elsewhere in the major except lower-level and non-major courses.

ICD/CD Electives: International & Cultural Diversity/Cultural Discourse; refer to core curriculum list and try to overlap when possible to keep free electives open.

*GENE 432 alternatives: BICH 414; BICH 432

*MATH 151 alternative: MATH 171

*BIOL 351 alternative: BIOL 413 and 423

*MATH 152 alternative: MATH 172

Electives **cannot** be BICH 303; BICH 410-412; ENGL 100-102; MATH 100-104, 130-150, 230

Two courses in the degree plan must be a Writing Intensive course designated by the department in the schedule of classes: Approved courses: GENE 491, see advisor for additional courses.