

DEPARTMENT OF SOIL AND CROP SCIENCES
Concentration: Plant Biotechnology, Genetics and Breeding

Name _____ Telephone _____

Local Address _____

Advisor _____ Graduation Term _____ Year _____

Degree Requirements: 120 credits, 42 upper division, 27 Soil and Crop Sciences

FRESHMAN YEAR

Semesters

<u>Offered</u>	<u>Credits</u>
F ___AGRI 192 Orientation to Agricultural Systems	1
F S SS ___LIFE 102 Attributes of Living Systems	4
F S SS ___LIFE 103 Biology of Organisms-Animals and Plants	4
F S SS ___CHEM111 General Chemistry I	4
F S SS ___CHEM112 General Chemistry Lab I	1
F S SS ___CHEM113 General Chemistry II	3
F S SS ___CHEM114 General Chemistry Lab II	1
F S SS ___CO 150 College Composition	3
F S SS ___MATH124 Logarithmic/Exponential Function	1
F S SS ___MATH125 Numerical Trigonometry	1
F S SS ___MATH126 Analytic Trigonometry	1
F S SS ___MATH155 Calculus for Biological Scientists I	4
F ___SOCR 100 General Crops	4
Total	32

SOPHOMORE YEAR

Semesters

<u>Offered</u>	<u>Credits</u>
F ___AGRI/IE 116 Plants & Civilization or S ___AGRI/IE 270 World Interdependence - Population and Food	3
F S ___FSHN 125 Food & Nutrition in Health or F S SS ___FSHN 150 Survey of Human Nutrition	2
F S ___BIO 310 Cell Biology	4
F S SS ___CHEM245 Fund of Organic Chemistry	4
F S ___CHEM246 Fund of Organic Chem Lab	1
F S ___AREC 202 Ag & Resource Economics	3
F SS ___PH 110 Descriptive Physics	3
F S SS ___SOCR 240 Introductory Soil Science	4
F S SS ___SPCM 200 Public Speaking	3
F S SS ___Arts and Humanities ¹	3
F S SS ___Historical Perspectives ²	3
Total	33-34

JUNIOR and SENIOR YEARS

Semesters

<u>Offered</u>	<u>Credits</u>
F S SS ___BC 351 Principles of Biochemistry	4
S ___BZ 440 Plant Physiology	3
S ___BZ 441 Plant Physiology Lab	2
F S ___JTC 300 Technical Communication	3
F S SS ___SOCR 330 Principles of Genetics	3
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S ___SOCR 430 Applications of Plant Biotechnology or F ___SOCR/HORT 460 Plant Breeding	3
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F S SS ___SOCR 486 Practicum	1
F ___SOCR 492 Seminar	1
F S SS ___SOCR Electives	8
.....	
F S SS ___STAT 301 Intro to Statistical Methods or F S ___STAT/ERHS 307 Intro to Biostatistics	3
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<i>Select two of the following three groups:</i>	
F ___BSPM 302 Applied/General Entomology and F ___BSPM 303C Ag Entomology Lab	2
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F ___BSPM 361 Elements of Plant Pathology or F ___BSPM 308 Biology and Control of Weeds	1
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<i>Select six credits from the following:</i>	
F S ___BC 352 Principles of Biochemistry Lab	1
F ___BZ 331 Plant Anatomy	4
F ___BZ 346 Evolution and Heredity	3
S ___BZ 402 Chromosomes of Eukaryotes	4
F ___BZ 476 Topics in Advanced Genetics	3
F S SS ___MIP 300 General Microbiology	3
F ___MIP 450 Microbial Genetics	3
F ___BC 463 Molecular Genetics	3
S ___SOCR 414 Ag Experimental Design	3
F ___HORT 450A-D Horticulture Food Crops	1
F ___HORT 452 Viticulture I-Grape Production	1
F ___HORT 454 HortCrop Production & Mgmt	2
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F S SS ___Arts and Humanities ¹	3
F S SS ___Electives	7-9
Total	53-56

¹Select from list of courses in category 3B in the All-University Core Curriculum (AUCC).²Select from list of courses in category 3D in the AUCC.

MATH 117 and MATH 118 are considered review courses; credits in these courses may not be used toward a degree in the Plant Biotechnology, Genetics and Breeding Concentration in the major in the Soil and Crop Sciences.

An introductory computer course such as AGRI 140 is considered a review course: Previous background in computers is expected. If a computer course is needed, AGRI 140 must be taken as an elective.

Additional Communication Suggested Electives

Writing

CO 300 Writing Arguments
CO 301 Writing in the Disciplines
E 210 Beginning Creative Writing
JTC 200 Professional Writing
JTC 301 Business Communications

Speaking

SPCM 232 Group Communication
SPCM 207 Rhetoric and Argumentation
SPCM 303 Business and Professional Speaking