

Department of Biochemistry, Biophysics, and Molecular Biology
Agricultural Biochemistry Curriculum
APPROVED LIST OF AGRICULTURAL SCIENCE COURSES

Agron 181	Introduction to Crop Science	3
Agron 182	Introduction to Soil Science	3
Agron 206	Introduction to Weather and Climate	3
Agron 281	Crop Physiology	4
Agron 316	Crop Structure-Function Relationships	3
Agron 317	Principles of Weed Science	3
Agron 320	Genetics, Agriculture, and Biotechnology	3
Agron 354	Soils and Plant Growth	3
Agron 354L	Soils and Plant Growth Laboratory	1
Agron 421	Introduction to Plant Breeding	3
Agron 459	Environmental Soil and Water Chemistry	2
Agron 463	Soil Formation and Landscape Relationships	4
Agron 485	Soil and Environmental Microbiology	3
A Ecl 312	Ecology	3
A Ecl 365	Vertebrate Biology	4
An S 114	Survey of the Animal Industry	2
An S 214	Domestic Animal Physiology	3
An S 214L	Domestic Animal Anatomy and Physiology Laboratory	1
An S 270	Foods of Animal Origin	3
An S 319	Animal Nutrition	3
An S 331	Animal Reproduction	3
An S 332	Laboratory Methods in Animal Reproduction	2
An S 333	Embryo Transfer and Related Technologies	2
An S 334	Embryo Transfer Laboratory	1
An S 337	Lactation	2
An S 345	Growth and Development of Domestic Animals	3
An S 352	Genetic Improvement of Domestic Animals	3
An S 419	Advanced Animal Nutrition	3
BBMB 430	Prokaryotic Diversity and Ecology	3
BBMB 440	Laboratory in Microbial Physiology, Diversity, and Genetics	3
BBMB 461	Molecular Biophysics	2
Biol 255	Fundamentals of Human Anatomy	3
Biol 255L	Fundamentals of Human Anatomy Laboratory	1
Biol 256	Fundamentals of Human Physiology	3
Biol 256L	Fundamentals of Human Physiology Laboratory	1
Biol 312	Ecology	3
Biol 313L	Genetics Laboratory	1
Biol 315	Biological Evolution	3
Biol 322	Introduction to Bioinformatics and Computational Biology	3
Biol 328	Molecular and Cellular Biology of Human Disease	3
Biol 335	Principles of Human and Other Animal Physiology	3
Biol 335L	Principles of Human and Other Animal Physiology	1
Biol 336	Ecological and Evolutionary Animal Physiology	3
Biol 344	Human Reproduction	3
Biol 349	The Genome Perspective in Biology	3
Biol 350	Comprehensive Human Anatomy	3
Biol 351	Comparative Chordate Anatomy	5
Biol 352	Vertebrate Histology	4
Biol 353	Introductory Parasitology	3
Biol 356	Dendrology	3
Biol 364	Invertebrate Biology	3
Biol 365	Vertebrate Biology	4
Biol 423	Developmental Biology	3
Biol 423L	Developmental Biology Laboratory	1
Biol 428	Topics in Cell Biology	3
Biol 430	Principles of Plant Physiology	3
Biol 434	Endocrinology	3
Biol 436	Neurobiology	3
Biol 439	Environmental Physiology	3,4
Biol 444	Bioinformatics Analysis	4
Biol 454	Plant Anatomy	4
Biol 456	Principles of Mycology	3
Biol 462	Evolutionary Genetics	3
EnSci 301	Natural Resource Ecology and Soils	4
EnSci 312	Ecology	4
EnSci 324	Energy and the Environment	3

EnSci 360	Environmental Soil Science-----	3
EnSci 485	Soil and Environmental Microbiology	3
Ent 370	Insect Biology	3
Ent 374	Insects and Our Health.....	3
Ent 374L	Insects and Our Health Laboratory.....	1
Ent 375	Plant Protection Using Natural Enemies	3
Ent 376	Fundamentals of Entomology and Pest Management	3
For 201	Forest Biology.....	2
For 356	Dendrology.....	3
For 481	Conversion of Lignocellulosic Materials.....	3
FS HN 167	Introduction to Human Nutrition	3
FS HN 264	Fundamentals of Nutritional Biochemistry and Metabolism-----	3
FS HN 265	Nutrition for Active and Healthy Lifestyles	3
FS HN 311	Food Chemistry.....	3
FS HN 360	Advanced Nutrition and Regulation of Metabolism.....	3
FS HN 361	Nutrition and Health Assessment	2
FS HN 362	Nutrition in Growth and Development	3
FS HN 364	Nutrition and Prevention of Chronic Disease-----	3
FS HN 410	Food Analysis	4
FS HN 420	Food Microbiology	3
FS HN 421	Food Microbiology Laboratory	3
FS HN 461	Medical Nutrition and Disease I.....	4
FS HN 467	Molecular Basis of Nutrition in Disease Prevention-----	3
Gen 313L	Genetics Laboratory.....	1
Gen 320	Genetics, Agriculture, and Biotechnology.....	3
Gen 340	Human Genetics.....	3
Gen 402	Microbial Genetics and Genomics-----	3
Gen 409	Molecular Genetics	3
Gen 410	Analytical Genetics.....	3
Gen 444	Bioinformatic Analysis.....	4
Gen 462	Evolutionary Genetics.....	3
Hort 221	Principles of Horticulture Science.....	3
Hort 321	Horticulture Physiology	3
Hort 354	Soils and Plant Growth	3
Hort 354L	Soils and Plant Growth Laboratory	1
Hort 421	Introduction to Plant Breeding.....	3
Micro 302	Biology of Microorganisms.....	3
Micro 302L	Microbiology Laboratory.....	1
Micro 310	Medical Microbiology	3
Micro 310L	Medical Microbiology Laboratory	1
Micro 320	Molecular and Cellular Microbiology.....	4
Micro 353	Introductory Parasitology.....	4
Micro 374	Insects and Our Health.....	3
Micro 374L	Insects and Our Health Laboratory.....	1
Micro 402	Microbial Genetics and Genomics	3
Micro 408	Virology	3
Micro 420	Food Microbiology	3
Micro 421	Food Microbiology Laboratory	3
Micro 430	Prokaryotic Diversity and Ecology.....	3
Micro 440	Laboratory in Microbial Physiology, Diversity, and Genetics.....	3
Micro 456	Principles of Mycology.....	3
Micro 475	Immunology	3
Micro 475L	Immunology Laboratory	1
Mteor 206	Introduction to Weather and Climate.....	3
NREM 301	Natural Resource Ecology and Soils	4
PI P 408	Principles of Plant Pathology.....	3
PI P 477	Bacterial-Plant Interactions-----	3
Stat 101	Principles of Statistics.....	4
Stat 104	Introduction to Statistics	3
Stat 401	Statistical Methods for Research Workers	4
Stat 402	Statistical Design and the Analysis of Experiments.....	3
Tox 401	Principles of Toxicology-----	3
Tox 420	Food Microbiology	3

The Agricultural Sciences Group should include two related courses in Agricultural Science selected from this list. Additional credits, to a minimum of 9, should be chosen from other courses on the list. Approval of courses that a student believes to be appropriate as Agricultural Science, but which are not listed here, should be sought from the student's academic advisor.