

Iowa State University **SEED SCIENCE SECONDARY MAJOR**
 Department of Agronomy 2005-2007 Catalog

AGRICULTURAL SCIENCES (21 cr.)

Agron 114	Principles of Agronomy	3(2-3 to 4)	F, S
or			
Hort 221	Principles of Horticulture	3(2-2)	F, S
Agron 154	Fundamentals of Soil Science	3(2-2 to 4)	F, S
Agron 206	Introduction to Meteorology	3(3-0)	F, S
Agron 354	Soils and Plant Growth	3(3-0)	F, S
Agron or Hort electives		6	
AST electives (suggested: AST 362)		3	

LIFE/BIOLOGICAL SCIENCES (20 cr.)

Agron 317	Principles of Weed Science	3(2-2)	F, S
Biol 211	Principles of Biology I	3(3-0)	F, S
Biol 211L	Principles of Biology Laboratory	1(0-3)	F, S
Biol 212	Principles of Biology II	3(3-0)	F, S
Biol 212L	Principles of Biology Laboratory	1(0-3)	F, S
Ent 376	Fund. of Entomology & Pest Management	3(2-3)	F, S
Gen 320	Genetics, Agriculture & Biotechnology	3(3-0)	F, S
or			
Biol 313	Principles of Genetics	3(3-0)	F, S
Pl P 408	Principles of Plant Pathology	3(2-3)	F, S

SEED SCIENCE (10 cr.)

Agron 338	Seed Science and Technology	3(2-2)	S
Agron 421	Introduction to Plant Breeding	3(3-0)	F
Agron 491	Seed Science Internship Experience	2-4 cr.	F, S, SS
Select 300-400 level course from Agron, AST, or Hort.		2	F, S

PHYSICAL SCIENCES (12 cr.)

Chem 163 & 163L	General Chemistry & Lab	5(4-3)	F, S, SS
BBMB 221	Struc. & React. in Biochem. Processes	3(3-0)	F, S
or			
Chem 231 & 231L	Elementary Organic Chem. & Lab	4(3-3)	F, S, SS
Phys 106	The Physics of Common Experience	4(4-2)	F, S
or			
Phys 111	General Physics	4(4-2)	F, S, SS
or			
Chem 164 & 164L	General Chemistry & Lab	4(3-3)	F, S

MATHEMATICAL SCIENCES (6 cr.)

Math 140	College Algebra	3(3-1)	F, S, SS
or			
Math 150	Discrete Math for Bus. and Soc. Sci.	3(2-1)	F, S, SS
Stat 101	Principles of Statistics	4(3-2)	F, S, SS
or			
Stat 104	Introduction to Statistics	3(2-2)	F, S, SS
Demonstration of computer proficiency (see department of primary major for procedures)			

ECONOMICS AND BUSINESS (9 cr.)

Econ 101	Principles of Microeconomics	3(3-0)	F, S, SS
Econ 235	Introduction to Agricultural Markets	3(3-0)	F, S
One course from the following group:			
Acct 284; Econ 102, 330, 336; Mgt 370; Mkt 340		3	

COMMUNICATIONS (12.5 cr.)

Engl 104	First-Year Composition I	3(3-0)	F, S, SS
Engl 105	First-Year Composition II	3(3-0)	F, S, SS
Sp Cm 212	Fundamentals of Public Speaking	3(3-0)	F, S, SS
or			
AgEds 311	Pres. & Sales Strategies for Ag Audiences	3(3-0)	F, S
Lib 160	Library Instruction	0.5 (1-0)	F, S
Engl 302 or 309 or 314 or Sp Cm 312		3	

HUMANITIES, ETHICS, AND SOCIAL SCIENCE (15 cr.)

Three credits each of:
 humanities,
 social sciences,
 ethics (from an approved list),
 U.S. diversity (from an approved list), and
 international perspectives (from an approved list);

PRIMARY MAJOR REQUIREMENTS AND FREE ELECTIVES: 22.5

Suggested electives: Agron 212, 332, 356, 406, 446, 473; Hort 471