

**Undergraduate Curriculum in Agricultural Engineering  
Animal Production Systems Engineering Option**

2013-2014 Catalog

Total Credits 128

**First Year (32 cr.)**

**Semester 1 (16 cr.)**

R	Engr 101	Orientation (FS)
3	AE 170	Graphics and Design (FS)
4	Math 165	Calculus I (FSSS)
4	Chem 167	General Chemistry (FS)
1	Chem 167L	General Chemistry Lab (FS)
3	Engl 150	Crit. Think. and Comm.(FSSS)
1	Lib 160	Library Instruction (FSSS)

**Semester 2 (16 cr.)**

1	AE 110	Experiencing ABE (S)
3	Engr 160	Engineering Problems (FS)
4	Math 166	Calculus II (FSSS)
5	Phys 221	Classical Physics I (FSSS)
3	→	SS&H Elective (FSSS)

**Second Year (33 cr.)**

**Semester 3 (17 cr.)**

3	AE 216	Fundamentals of AE (F)
3	Math 266	Differential Equations (FSSS)
5	Phys 222	Classical Physics II (FSSS)
3	EM 274	Statics of Engineering (FSSS)
3	Biol 211	Principles of Biology I (FSSS)

**Semester 4 (16 cr.)**

1	AE 201	Sophomore Seminar (FS)
2	AE 218	Project Mgmt & Design (S)
3	EM 324	Mechanics of Materials (FSSS)
1	EM 327	Mechanics of Materials Lab (FSSS)
3	ME 231	Thermodynamics (FS)
3	Stat 305	Engr Statistics (FSSS)
3	Engr 250	WOVE Composition (FSSS)

**Third Year (32 cr.)**

**Semester 5 (16 cr.)**

4	AE 363	Electric Power and Electronics (F)
3	AE 316	Systems Modeling (F)
3	EM 378	Mechanics of Fluids (FSSS)
3	CE 332	Structural Analysis I (FS)
3	→	Ag & Biological Elective (FS)

**Semester 6 (16 cr.)**

3	AE 478*	Design of Ag Structures (S-odd#)
3	CE 333	Structural Steel Design I (FS)
1	AE 271 or 272	Modeling (FS)
3	→	SS&H Elective (FSSS)
3	→	Communications Elective (FSSS)
3	→	International Perspective Elective (FSSS)

**Fourth Year (31 cr.)**

**Semester 7 (17 cr.)**

3	AE 404	Instrumentation for Ag and Bio Engr (F)
2	AE 415	AE Design I (FS)
4	ME 436	Heat Transfer (FSSS)
3	→	AE Elective (FS)
2	→	Technical Elective
3	→	U.S. Diversity Elective (FSSS)

**Semester 8 (14 cr.)**

2	AE 416	AE Design II (FS)
3	AE 472	Environmental Systems (S-even#)
3	AE 469	Grain Processing and Handling (S)
3	AE 424	Air Pollution (modules A and B+E) (S)
3	CE 334	Reinforced Concrete Design I (FS)

*\*Please check the current catalog and Schedule of Classes for most recent offerings*