

**Undergraduate Curriculum in Agricultural Engineering
Animal Production Systems Engineering Option
2015-2016 Catalog
Total Credits 128**

First Year (32 cr.)

Semester 1 (16 cr.)		Semester 2 (16 cr.)			
R	Engr 101	Orientation (FS)	1	A B E 110	Experiencing ABE (S)
3	A B E 170	Graphics and Design (FS)	3	A B E 160	Engineering Problems (FS)
4	Math 165	Calculus I (FSSS)	4	Math 166	Calculus II (FSSS)
4	Chem 167	General Chemistry (FS)	5	Phys 221	Classical Physics I (FSSS)
1	Chem 167L	General Chemistry Lab (FS)	3	→	SS&H Elective (FSSS)
3	Engl 150	Crit. Think. and Comm.(FSSS)			
1	Lib 160	Library Instruction (FSSS)			

Second Year (32 cr.)

Semester 3 (17 cr.)		Semester 4 (15 cr.)			
3	A B E 216	Fundamentals of AE (F)	1	A B E 201	Sophomore Seminar (FS)
3	Math 266	Differential Equations (FSSS)	2	A B E 218	Project Mgmt & Design (S)
5	Phys 222	Classical Physics II (FSSS)	3	EM 324	Mechanics of Materials (FSSS)
3	EM 274	Statics of Engineering (FSSS)	3	ME 231	Thermodynamics (FS)
3	Biol 211	Principles of Biology I (FSSS)	3	Stat 305	Engr Statistics (FSSS)
or	BIOL 251	Biological Processes in the Environment (S)	3	Engl 250	WOVE Composition (FSSS)

Third Year (33 cr.)

Semester 5 (17 cr.)		Semester 6 (16 cr.)			
4	A B E 363	Electric Power and Electronics (F)	3	A B E 478*	Design of Ag Structures (S-odd#)
3	A B E 316	Systems Modeling (F)	3	CE 333	Structural Steel Design I (FS)
3	EM 378	Mechanics of Fluids (FSSS)	1	→	Computer Graphic Elective (ABE 273 preferred)
3	CE 332	Structural Analysis I (FS)	3	→	SS&H Elective (FSSS)
3	→	An Sci/Agron Elective (FS)	3	→	Communications Elective (FSSS)
1	EM 327	Mechanics of Materials Lab (FSSS)	3	→	International Perspective Elective (FSSS)

Fourth Year (31 cr.)

Semester 7 (17 cr.)		Semester 8 (14 cr.)			
3	A B E 404	Instrumentation for Ag and Bio Engr (F)	2	A B E 416	AE Design II (FS)
2	A B E 415	AE Design I (FS)	3	A B E 472	Environmental Systems (S-even#)
4	ME 436	Heat Transfer (FSSS)	3	A B E 469	Grain Processing and Handling (S)
3	→	ABE Elective (FS)	3	→	Technical Elective
2	A B E 475	APSE Practicum (FS)	3	CE 334	Reinforced Concrete Design I (FS)
3	→	U.S. Diversity Elective (FSSS)			

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

* A B E 472 or A B E 478 can be taken spring semester, junior year.

Updated 12/31/14