

Undergraduate Curriculum in Agricultural Engineering
Animal Production Systems Engineering Option

2016-2017 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 Engl 250 WOVE Composition (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	→	SS&H Elective (FSSS)	3 Stat 305 Engr Statistics (FSSS)
			3 Biol 211 Principles of Biology I (FSSS)
			or BIOL 251 Biological Processes in the Environment (S)

Third Year (32 cr.)

Semester 5 (16 cr.)		Semester 6 (16 cr.)	
4	A B E 363	Electric Power and Electronics (FS)	3 A B E 478* Design of Ag Structures (S-odd#)
3	A B E 316	Systems Modeling (FS)	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)
1	EM 327	Mechanics of Materials Lab (FSSS)	3 → Communications Elective (FSSS)
2	AN S 114	Survey of the Animal Industry (FS)	3 → International Perspective Elective (FSSS)

Fourth Year (32 cr.)

Semester 7 (18 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)	2 A B E 475 APSE Practicum (FS)
3	→	An Sci/Agtron Elective (FS)	1 A B E 418 FE Review (FS)
3	→	U.S. Diversity Elective (FSSS)	3 CE 334 Reinforced Concrete Design I (FS)

****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 1/22/16