

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

2024-2025 Catalog

Total Credits 128

First Year (32 cr.)

Semester 1 (16 cr.)		Semester 2 (16 cr.)			
R	Engr 1010	Orientation (FS)	1	ABE 1100	Experiencing ABE (S)
3	ABE 1700	Graphics and Design (FS)	3	ABE 1600	Engineering Problems (S)
4	Chem 1670	General Chemistry (FS)	4	Math 1660	Calculus II (FSSS)
1	Chem 1670L	General Chemistry Lab (FS)	4	Phys 2310	Classical Physics I (FSSS)
4	Math 1650	Calculus I (FSSS)	1	PHYS 2310L	Classical Physics I Lab(FS)
3	Engl 1500	Crit. Think. and Comm.(FSSS)	3	Engl 2500	WOVE Composition (FSSS)
1	Lib 1600	Library Instruction (FSSS)			

Second Year (31 cr.)

Semester 3 (16 cr.)		Semester 4 (15 cr.)			
3	ABE 2160	Fundamentals of AE (F)	2	ABE 2180	Project Mgmt & Design (S)
3	CE 2740	Statics of Engineering (FSSS)	1	ABE 2010	Sophomore Seminar (FS)
3	Math 2660	Differential Equations (FSSS)	3	EM 3240	Mechanics of Materials (FSSS)
3	TSM 3270	Animal Production Systems (F)	3	ME 2310	Thermodynamics (FS)
1	ABE 3270L	Animal Production Systems Design Lab (F)	3	Stat 3050	Engr Statistics (FSSS)
3	→	U.S. Cultures & Communities Elective	3	Biol 2110	Principles of Biology I (FS)
			or	BIOL 2510	Biological Processes in the Environment (S)

Third Year (33 cr.)

Semester 5 (17 cr.)		Semester 6 (16 cr.)			
3	ABE 3160	Systems Modeling (FS)	3	ABE 4780*	Design of Ag Structures (S-odd#)
4	ABE 3630	Electric Power and Electronics (FS)	3	CE 3330	Structural Steel Design I (FS)
3	ABE 3780	Mechanics of Fluids (FS)	3	IE 3050	Engineering Economic Analysis (FSSS)
3	CE 3320	Structural Analysis I (FS)	1	→	Computer GraphiCElective (ABE 273 preferred)
1	EM 3270	Mechanics of Materials Lab (FSSS)	3	→	Communication Elective
3	→	Math/Science Elective	3	→	International Perspective Elective

Fourth Year (32 cr.)

Semester 7 (18 cr.)		Semester 8 (14 cr.)			
2	ABE 4150	AE Design I (FS)	2	ABE 4160	AE Design II (FS)
3	ABE 4040	Instrumentation for Ag and Bio Engr (F)	3	ABE 4690	Grain Processing and Handling (S)
4	→	APS Engineering Elective	3	ABE 4720*	Environmental Systems (S-even#)
3	→	ABE Elective	3	CE 3340	Reinforced Concrete Design I (FS)
3	→	An Sci/Hort Elective	3	→	SS/H Elective
3	→	SS/H Elective			

***Highly recommended (not required) ***
FE Exam See adviser for review materials

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

* ABE 4720 or ABE 4780 can be taken spring semester, junior year.

Updated 5/24/24