

**Undergraduate Curriculum in Agricultural Engineering  
Power & Machinery Engineering Option**

2024-2025 Catalog

Total Credits 128

**First Year (32 cr.)**

<b>Semester 1 (16 cr.)</b>		<b>Semester 2 (16 cr.)</b>			
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 (FS)
1	Chem 1670L	General Chemistry Lab (FS)	4	Phys 2310	Classical Physics I (FSSS)
4	Math 1650	Calculus I (FS)	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 (30 cr.)**

<b>Semester 3 (15 cr.)</b>		<b>Semester 4 (15 cr.)</b>			
3	ABE 2160	Fund. Ag. and Biol. Engineering (F)	2	ABE 2180	Project Mgmt & Design (S)
3	CE 2740	Statics of Engineering (FSSS)	1	ABE 2010	Sophomore Seminar (FS)
3	Mat E 2730	Principles of Mat Science & Engr (FSSS)	3	EM 3240	Mechanics of Materials (FSSS)
3	Agron 1820	Introduction to Soil Science (FS)	3	Math 2660	Differential Equations (FSSS)
3	→	Math/Science Elective	3	Stat 3050	Engr Statistics (FSSS)
			3	→	International Perspectives Elective

**Third Year (32 cr.)**

<b>Semester 5 (17 cr.)</b>		<b>Semester 6 (15 cr.)</b>			
3	ABE 3160	Systems Modeling (F)	3	ABE 3420	Tractor Power (S)
4	ABE 3400	Ag Field Machinery (F)	3	ABE 3780	Mechanics of Fluids (FS)
1	ABE 3630	Electric Power and Electronics (FS)	3	ME 3240L	Manufacturing Engr Lab (FSSS)
3	EM 3270	Mechanics of Materials Lab (FSSS)	1	ME 3450	Dynamics F(FSSS)
3	ME 2310	Thermodynamics (FS)	2	→	Computer Graphics Elective
3	→	Communication Elective	3	Biol 2110	Principles of Biol I (FS)
			<b>or</b>	Biol 2510	Biological Processes in the Environment (S)

**Fourth Year (34 cr.)**

<b>Semester 7 (17 cr.)</b>		<b>Semester 8 (17 cr.)</b>			
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 4100	Elect. Systems Integration (S)
3	ABE 4130	Fluid Power Engineering (F)	3	→	ABE Breadth Elective
3	ME 3240	Manufacturing Engineering (FSSS)	3	IE 3050	Engineering Economic Analysis (FSSS)
3	ME 3250	Machine Design (FSSS)	3	→	SS/H Elective
3	→	US Cultures & Communities Elective	3	→	SS/H Elective

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