

IOWA STATE UNIVERSITY

Agricultural and Biosystems Engineering

B.S. in Agricultural Engineering
Power & Machinery Engineering Option
 * A typical 4-year program of study: 127.5 credits to graduate *

							First Year
Engr 101 Orientation (R)	AE 170X Graphics/Design (3)	Math 165 Calculus I (4)	Chem 167 Chemistry (4)	Chem 167L Chemistry Lab (1)	Engl 150 Critical Think (3)	Lib 160 Library (0.5)	
AE 110 Experiencing ABE (1)	Engr 160 Engr Problems/ Computation (3)	Math 166 Calculus II (4)	Physics 221 Classical Physics I (5)	SSH Elective (3)			
							Sophomore
SSH Elective (3)	EM 274 Statics (3)	Mat E 272 Materials (2)	Physics 222 Classical Physics II (5)	Agron 154 Soil Science (3)			
AE 201 Sophomore Seminar (1)	AE 216 Fundamentals (3)	Stat 305 Engr Statistics (3)	EM 324 Materials (3)	EM 327 Materials Lab (1)	Math 266 Differential Equations (3)	Engl 250 WOVE Comp (3)	
							Junior
AE 271 or 272 Modeling (1)	AE 340 Ag Field Machinery (3)	AE 363 Electric Power/ Electronics (4)	EM 345 Dynamics (3)	ME 330 Thermodynamics (3)	AE 316 Systems Modeling (3)		
Free Elective (1)	AE 342 Tractor Power (3)	ME 324 Manufacturing (4)	EM 378 Mechanics of Fluids (3)	Communication Elective (3)	Biol 211 Princ of Biol I (3)		
							Senior
Free Elective (1)	AE 404 Instrumentation (3)	AE 415 AE Design I (2)	AE 413 Fluid Power & Control Hydraulics (3)	ME 325 Mechanisms Machine Design (3)	International Elective (3)		
AE 416 AE Design II (2)	AE Elective (3)	Technical Elective (3)	Technical Elective (3)	Diversity Elective (3)			

KEY	 AE Program	 Technical Electives	 Math, Physical & Biological Sciences
	 SSH Electives	 Communication Skills	3 Number of Credits