

**Undergraduate Curriculum in Agricultural Engineering  
Agricultural & Environmental Systems Option**

2009-2011 Catalog

Total Credits 127.5

**First Year (31.5 cr.)**

<b>Semester 1 (15.5 cr.)</b>		<b>Semester 2 (16 cr.)</b>	
R	Engr 101	Orientation (FS)	1 AE 110
3	AE 170X	Graphics and Design (FS)	3 Engr 160
4	Math 165	Calculus I (FS)	4 Math 166
4	Chem 167	General Chemistry (FS)	5 Phys 221
1	Chem 167L	General Chemistry Lab (FS)	3
3	Engl 150	Crit. Think. and Comm.(FSSS)	
.5	Lib 160	Library Instruction (FSSS)	
			Experiencing ABE (S)
			Engineering Problems (FS)
			Calculus II (FS)
			Classical Physics I (FSSS)
			SS&H Elective (FSSS)

**Second Year (34 cr.)**

<b>Semester 3 (17 cr.)</b>		<b>Semester 4 (17 cr.)</b>	
3	EM 274	Statics of Engineering (FSSS)	1 AE 201
3	Math 266	Differential Equations (FSSS)	3 AE 216
5	Phys 222	Classical Physics II (FSSS)	3 Stat 305
3	Biol 111	Principles of Biology I (FS)	3 EM 324
3		SS&H Elective	1 EM 327
			3 ME 330
			3 Engl 250
			Sophomore Seminar (FS)
			Fund. Ag. and Biol. Engineering (S)
			Engr Statistics (FSSS)
			Mechanics of Materials (FSSS)
			Mechanics of Materials Lab (FSSS)
			Thermodynamics (FS)
			WOVE Composition (FSSS)

**Third Year (32 cr.)**

<b>Semester 5 (16 cr.)</b>		<b>Semester 6 (16 cr.)</b>	
4	AE 363	Electric Power and Electronics (F)	1 AE 271 or 272
3	AE 340	Ag Field Machinery (F)	4 CE 372
3	EM 378	Mechanics of Fluids (FSSS)	4
3	CE 332	Structural Analysis I (FS)	3
3	AE 316	Systems Modeling (F)	3
			1
			Modeling (FS)
			Hydrology/Hydraulics (S)
			Technical Elective
			Biological Elective
			Communication Elective
			Free Elective

**Fourth Year (30 cr.)**

<b>Semester 7 (15 cr.)</b>		<b>Semester 8 (15 cr.)</b>	
3	AE 404	Instrumentation for Ag and Bio Engr (F)	2 AE 416
2	AE 415	AE Design I (FS)	3 AE 472
3	AE 431	Natural Resources (F)	4
3		Technical Elective	3
3		Diversity Elective	3
1		Free Elective	
			AE Design II (FS)
			Environmental Systems (S)
			Technical Elective
			Technical Elective
			International Elective