

**Undergraduate Curriculum in Agricultural Engineering
Land and Water Resources Engineering Option
2015-2016 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 (FS)	4 Math 166	Calculus II (FS)
4	Chem 167	General Chemistry (FS)	5 Phys 221	Classical Physics I (FSSS)
1	Chem 167L	General Chemistry Lab (FS)	3 Biol 251	Biological Processes in the Environment (S)
3	Engl 150	Crit. Think. and Comm.(FSSS)	or Biol 211	Principles of Biology I (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	EM 274	Statics of Engineering (FSSS)	2 A B E 218	Project Mgmt & Design (S)
3	Math 266	Differential Equations (FSSS)	3 EM 324	Mechanics of Materials (FSSS)
5	Phys 222	Classical Physics II (FSSS)	3 ME 231	Thermodynamics (FS)
3	Agron 154	Fundamentals of Soil Science (FS)	3 Stat 305	Engr Statistics (FSSS)
			3 Engl 250	WOVE Composition (FSSS)

Third Year (32 cr.)

Semester 5 (17 cr.)		Semester 6 (16 cr.)		
4	A B E 363	Electric Power and Electronics (F)	3 CE 372	Hydrology/Hydraulics (FS)
3	A B E 408	GIS and Natural Res. Mgmt (F)	3 →	ABE Breadth Elective
3	A B E 316	Systems Modeling (F)	3 CE 326	Principles of Environmental Eng. (FS)
3	EM 378	Mechanics of Fluids (FSSS)	2 Micro 201	Introduction to Microbiology (FS)
1	EM 327	Mechanics of Materials Lab (FSSS)	1 Micro 201L	Introduction to Microbiology Lab (FS)
3	→	International Perspective Elective	1 →	Computer Graphic Elective (ABE 273 preferred)
			3 →	SS&H Elective

Fourth Year (31 cr.)

Semester 7 (17 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 →	Structures Elective
3	A B E 431	Soil and Water Conservation (F)	3 →	Subsurface Systems Elective
3	Geol 201	Geology for Engrs and Env Sci (F)	3 →	Water Quality Elective
3	→	SS&H Elective	3 →	US Diversity Elective
3	→	Communication Elective (FSSS)		

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