

Undergraduate Curriculum in Agricultural Engineering
Land and Water Resources Engineering Option
2016-2017 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
3	A B E 170	Graphics and Design (FS)	3 A B E 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 Engl 250
3	Engl 150	Crit. Think. and Comm.(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
3	EM 274	Statics of Engineering (FSSS)	2 A B E 218
3	Math 266	Differential Equations (FSSS)	3 EM 324
5	Phys 222	Classical Physics II (FSSS)	3 ME 231
3	Agron 154	Fundamentals of Soil Science (FS)	3 Stat 305
			3 Biol 251
			or Biol 211
			Biological Processes in the Environment (S)
			Principles of Biology I (FSSS)

Third Year (32 cr.)

Semester 5 (17 cr.)		Semester 6 (16 cr.)	
4	A B E 363	Electric Power and Electronics (FS)	3 CE 372
3	A B E 316	Systems Modeling (FS)	3 →
3	EM 378	Mechanics of Fluids (FSSS)	3 CE 326
1	EM 327	Mechanics of Materials Lab (FSSS)	2 Micro 201
3	→	GIS Elective	1 Micro 201L
3	→	International Perspective Elective	1 →
			3 →
			Hydrology/Hydraulics (FS)
			ABE Breadth Elective
			Principles of Environmental Eng. (FS)
			Introduction to Microbiology (FS)
			Introduction to Microbiology Lab (FS)
			Computer Graphic Elective (ABE 273 preferred)
			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
2	A B E 415	AE Design I (FS)	3 →
3	A B E 431	Soil and Water Conservation (F)	3 →
3	Geol 201	Geology for Engrs and Env Sci (F)	3 →
3	→	SS&H Elective	3 →
3	→	Communication Elective (FSSS)	
			AE Design II (FS)
			Structures Elective
			Subsurface Systems Elective
			Water Quality Elective
			U.S. Diversity Elective

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