

# Undergraduate Curriculum in Agricultural Systems Technology

## Machine Systems Option

2016-2017 Catalog – Total Credits 120

### First Year (31 cr.)

Fall Semester 1 (16 cr.)			Spring Semester 2 (15 cr.)		
1	TSM 110	Introduction to Technology (F)	1	TSM 111	Experiencing Technology (S)
3	TSM 116	Design in Technology (FS)	3	TSM 115	Solving Technology Problems (FS)
3	ENGL 150	Crit. Think. and Comm.(FSSS)	3	MATH 151	Calculus for Business and Social Sciences (FSSS)
1	LIB 160	Library Instruction (FSSS)	5	PHYS 111	General Physics and Lab (FSSS)
3	MATH 145	Applied Trigonometry (FS)	3		US Diversity - See list (FSSS)
4	CHEM 163	College Chemistry			
1	CHEM 163L	Lab in College Chemistry			

### Second Year (32 cr.)

Fall Semester 3 (16 cr.)			Spring Semester 4 (16 cr.)		
1	TSM 201	Preparing for Workplace Seminar (FS)	2	TSM 216	Adv. Graphics, Interpretation, CAD (FS)
			1	ABE 271;	SolidWorks (choose one) (FS)
				ABE 272;	Pro/ENGINEER (choose one) (FS)
				ABE 273;	2D AutoCAD (choose one) (FS)
3	TSM 210	Fundamentals of Technology (FS)	3	TSM 240	Intro to Manufacturing Processes (FS)
3	TSM 270	Principles of Injury Prevention (F)	3	STAT 104	Introduction to Statistics (FSSS)
3	ENGL 250	Writ/Oral/Vis/Elec Composition (FSSS)	3		Speech Communication - See list (FSSS)
3	ACCT 284	Financial Accounting (FSSS)	3	BIOL 101	Life Science Biology - See list (FSSS)
				or 211	
3	ECON 101	Principles of Microeconomics (FSSS)	1	TSM 214x	Managing Technology Projects (FS)

### Third Year (29 cr.)

Fall Semester 5 (14 cr.)			Spring Semester 6 (15 cr.)		
3	TSM 333	Precision Farming Systems(F)	3	TSM 310	Total Quality Improvement (S)
4	TSM 335	Tractor Power (F)	3	TSM 330	Ag Machinery and Power Mgmt (S)
4	TSM 363	Electric Power and Electronics for Agriculture and Industry (FS)	3	TSM 337	Fluid Power Systems Technology (FS)
3		English - See list (FSSS)	3		Humanities - See list (FSSS)
			3		Life Science - See list (FSSS)

**Summer - R**

**TSM 397**

**Internship in Technology (FSSS)**

### Fourth Year (28 cr.)

Fall Semester 7 (16 cr.)			Spring Semester 8 (12 cr.)		
2	TSM 399	Work Experience in Technology (FSSS)	3	TSM 370	Occupational Safety (S) [Ethics requirement]
2	TSM 415	Technology Capstone I (FS)	3	TSM 416	Technology Capstone II (FS)
9		Elective (FSSS)	3	TSM 443	Statics and Strengths of Materials for Technology (S)
3		International Perspective (FSSS)	3	TSM 465	Automation Systems (S)

**“See list” – Refer to your Degree Audit (available in Access+) for options for each list.**

**NOTE: This is an example four-year plan. Your actual semester schedules may vary.**