

# Undergraduate Curriculum in Agricultural Systems Technology

## Machine Systems Option

2020-2021 – Total Credits 120

### First Year (31 cr.)

Semester 1 (16 cr.)			Semester 2 (15 cr.)		
1	TSM 110	Introduction to Technology (F)	1	TSM 111	Experiencing Technology (FS)
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)	4	PHYS 131	General Physics (FSSS)
3	MATH 145	Applied Trigonometry (FS)	1	PHYS 131L	General Physics Lab (FSSS)
4	CHEM 163	College Chemistry	3		US Diversity - See list (FSSS)
1	CHEM 163L	Lab in College Chemistry			

### Second Year (29 cr.)

Semester 3 (14 cr.)			Semester 4 (15 cr.)		
1	TSM 201	Preparing for Workplace Seminar (FS)	2	TSM 216	Adv. Graphics, Interpretation, CAD (FS)
3	TSM 210	Fundamentals of Technology (FS)	1	ABE 271; ABE 272; ABE 273;	SolidWorks (choose one) (FS) Pro/ENGINEER (choose one) (FS) 2D AutoCAD (choose one) (FS)
1	TSM 214	Managing Technology Projects (FS)	3	TSM 240	Intro to Manufacturing Processes (FS)
3	TSM 270	Principles of Injury Prevention (FS)	3	STAT 104	Introduction to Statistics (FSSS)
3	ENGL 250	Writ/Oral/Vis/Elec Composition (FSSS)	3	ECON 101	Principles of Microeconomics (FSSS)
3	ACCT 284	Financial Accounting (FSSS)	3	ENGL 250	Writ/Oral/Vis/Elec Composition (FSSS)

**Summer – R TSM 397 Internship in Technology (FSSS)**  
Must submit paperwork to enroll. GPA minimum 2.5 sophomore,  
2.0 junior and senior.

### Third Year (31 cr.)

Semester 5 (16 cr.)			Semester 6 (15 cr.)		
3	TSM 433	Precision Farming Systems(F)	3	TSM 310	Total Quality Improvement (FS)
4	TSM 335	Tractor Power (F)	3	TSM 330	Ag Machinery and Power Mgmt (S)
4	TSM 363	Electric Power and Electronics (FS)	3	TSM 337	Fluid Power Systems Technology (FS)
			3		English - See list (FSSS)
2	TSM 399	Work Experience in Technology (FSSS)	3		Life Science - See list (FSSS)
3		Humanities - See list (FSSS)			

### Fourth Year (29 cr.)

Semester 7 (14 cr.)			Semester 8 (15 cr.)		
			3	TSM 370	Occupational Safety (S)
2	TSM 415	Applied Project Management (FS)	3	TSM 416	Technology Capstone (FS)
6		Elective (FSSS)	3	TSM 443	Statics and Strengths of Materials (FS)
3		International Perspective (FSSS)	3	TSM 465	Automation Systems (S)
3		Speech Communication - See list (FSSS)	3		Elective (FSSS)

“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.