

# Undergraduate Curriculum in Agricultural Systems Technology

## Machine Systems Option

2021-2022 – 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)	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 (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)	3	TSM 240	Intro to Manufacturing Processes (FS)
1	TSM 214	Managing Technology Projects (FS)	1	ABE 271 <u>or</u> ABE 272 <u>or</u> ABE 273	SolidWorks (FS) <u>-or-</u> Pro/ENGINEER (FS) <u>-or-</u> 2D AutoCAD (FS)
3	TSM 270	Principles of Injury Prevention (FS)	3	STAT 104	Introduction to Statistics (FSSS)
3	ACCT 284	Financial Accounting (FSSS)	3	BIOL 101 or 211	Life Science Biology Requirement (FSSS)
3	ENGL 250	Writ/Oral/Vis/Elec Composition (FSSS)	3	ECON 101	Principles of Microeconomics (FSSS)

### Third Year (29 cr.)

Semester 5 (14 cr.)			Semester 6 (15 cr.)		
4	TSM 335	Tractor Power (F)	3	TSM 310	Total Quality Improvement (FS)
4	TSM 363	Electric Power and Electronics (FS)	3	TSM 330	Ag Machinery and Power Mgmt (S)
3	TSM 433	Precision Farming Systems(F)	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 (31 cr.)

Semester 7 (16 cr.)			Semester 8 (15 cr.)		
2	TSM 399	Work Experience in Technology (FSSS)	3	TSM 370	Occupational Safety (S)
2	TSM 415	Applied Project Management (FS)	3	TSM 416	Technology Capstone (FS)
3		International Perspective (FSSS)	3	TSM 443	Statics and Strengths of Materials (FS)
3		Speech Communication - See list (FSSS)	3	TSM 465	Automation Systems (S)
6		Elective (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.**