

AGRICULTURAL TECHNOLOGY MANAGEMENT CORE (ALL ATM Students)			
Area	Course	Class Title	Credit Hours
Mathematics	MATH 205	General Calculus & Linear Algebra	3
	STAT 325	Introduction to Statistics (OR)	3
	STAT 340	Biometrics I (OR)	
	STAT 350	Business and Economic Statistics	
Communications	ENGL 100	Expository Writing II	3
	ENGL 200	Expository Writing I	3
	COMM 105	Public Speaking 1A	2
		Communication Elective	3
Graphics Communication	ME 212	Solid Works (AND)	3 (OR)
	BAE 250	Solid Modeling (OR)	
	GEOG 302	Cartography and Thematic Mapping (OR)	3
	GRSC 210	CAD Flow Sheets for Grain Processing	
Science	CHM 210	Chemistry I	4
	PHYS 113	General Physics I	4
	BIOL 198	Principles of Biology	4
Agribusiness and Management	ECON 110	Principles of Macroeconomics	3
	ACCTG 231	Accounting for Business Operations	3
	MANGT 420	Management Concepts (OR)	3
	MANGT 421	Intro to Management Operations (OR)	
	AGEC 318	Food and Agribusiness Management	
		Agribusiness Management Electives	6
ATM/BAE	ATM 101	Intro to Bio and Ag Engg Tech	1
	ATM 160	Engineered Systems and Tech in Ag	3
	ATM 450	Sensors & Controls for Ag and Biol System	3
	ATM 331	Professional Practice for ATM	1
	BAE 582	NRES Project (OR)	3
	ATM 536	ATM Capstone Project	
General Education		Unrestricted Elective	3
		Humanities and/or Social Sciences	6
TOTAL ATM CORE REQUIREMENTS			67

Choose ONE of the following Option Areas

Agribusiness Management Option Requirements			
Focus: Business side of agricultural technology. Students in this option learn agricultural business skills with a base of technical knowledge in agricultural equipment, buildings, precision, chemical applications, and water management.			
Course	Class Title	Credit Hr	
MKTG 400	Introduction to Marketing (OR)	3	
AGEC 515	Food and Agribusiness Marketing		3
ACCTG 241	Accounting for Investment & Financing		3
ATM 511	Agricultural Building Systems		3
ATM 558	Hydrology and Soil Management		3
BAE 350	Off Road Machinery Systems		2
BAE 351	Machinery Systems Laboratory		1
FINAN 450	Principles of Finance (OR)		3
AGEC 513	Agricultural Finance		
Total Option Required Hours (above)			18
ATM/BAE Elective Hours (see departmental list)			17
Technical Elective Hours (see departmental list)			18
ATM Core Requirements			67
Total Degree Hours			120

Water Management Option Requirements			
Focus: Apply understanding of the water cycle and related technology and management tools to support sustainable water use and management; training to assist with flood and drought management, water quality assessment, and pollution prevention.			
Course	Class Title	Credit Hr	
AGRON 305	Soils		4
ATM 558	Hydrology and Soil Management		3
ATM 653	Water Management and Irrigation Systems		2
ATM 654	Water Management and Irrigation Systems Lab		1
ATM 661	Watershed Assessment and Management		3
GEOG 508	Geographic Information Systems I		4
Total Option Required Hours (above)			17
ATM/BAE Elective Hours (see departmental list)			17
Technical Elective Hours (see departmental list)			19
ATM Core Requirements			67
Total Degree Hours			120

Precision Agriculture Option Requirements			
Focus: Application of precision technology to controlling and managing site-specific applications of crop inputs through intelligent use of sensors, mechatronics, and responsible data.			
Course	Class Title	Credit Hr	
BAE 350	Off Road Machinery Systems		2
BAE 351	Machinery Systems Laboratory		1
ATM 558	Hydrology and Soil Management		3
ATM 653	Water Management and Irrigation Systems		2
ATM 654	Water Management and Irrigation Systems Lab		1
ATM 550	Precision Agriculture Technologies		3
GEOG 508	Geographic Information Systems I		4
AGRON 305	Soils		4
AGRON 202	Introduction to Precision Ag Software		3
AGRON 655	Site Specific Agriculture		3
Total Option Required Hours (above)			26
ATM/BAE Elective Hours (see departmental list)			14
Technical Elective Hours (see departmental list)			13
ATM Core Requirements			67
Total Degree Hours			120

Production Agriculture Option Requirements			
Focus: Application of engineered systems and components to agricultural production; marketing strategies of crops, livestock, and other commodities; and to manufacturing of machinery and equipment.			
Course	Class Title	Credit Hr	
ATM 455	Engines and Power Transfer		3
ATM 511	Agricultural Building Systems		3
ATM 558	Hydrology and Soil Management		3
BAE 350	Off Road Machinery Systems		2
BAE 351	Machinery Systems Laboratory		1
IMSE 250	Introduction to Manufacturing Processes and Systems		2
IMSE 251	Manufacturing Processes Laboratory		1
Total Option Required Hours (above)			15
ATM/BAE Elective Hours (see departmental list)			14
Technical Elective Hours (see departmental list)			24
ATM Core Requirements			67
Total Degree Hours			120

Animal & Human Health Product Manufacturing Option Requirements			
Focus: Apply knowledge of biological system and agriculture to manage processing systems used for biomanufacturing operations for human and animal health products such as pharmaceuticals and vaccines			
Course	Class Title	Credit Hr	
ATM 511	Agricultural Building Systems		3
ATM 545	Processing and Storage of Grains		3
BAE 345	Properties of Biological Materials		2
BAE 346	Properties of Biological Materials Lab		1
BIOCH 265	Introductory Organic and Biochemistry (OR)		
CHEM 350	General Organic Chemistry (AND)		5
CHEM 351	General Organic Chemistry Lab		
BIOL 455	General Microbiology		4
GRSC 150	Principles of Milling (OR)		2
IMSE 250	Introduction to Manufacturing Processes and Systems		
ASI 210	Introduction to Animal Biotechnology (OR)		3
FDSC 305	Fundamentals of Food Processing		
Total Option Required Hours (above)			23
ATM/BAE Elective Hours (see departmental list)			17
Technical Elective Hours (see departmental list)			13
ATM Core Requirements			67
Total Degree Hours			120

For Additional Information please contact:
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