

Approved Course List for Option Electives

May select those courses listed here.

Additional courses may be acceptable. Please discuss with your advisor.

ACCT 201	Fundamentals of Accounting	3	IME 335	Welding Technology	3
ACEC 244	Agricultural Marketing	3	MGMT 320	Foundations of Management	3
AGEC 246	Intro to Agricultural Finance	3	MRKT 320	Foundations of Marketing	3
ANSC 114	Intro to Animal Sciences	3	ME 311	Intro to Aviation	3
ANSC 218	Anatomy & Physiology of Domestic Animals		ME 312	Intro to Flight	2
ANSC 220	Livestock Production	3	ME 313	Commercial Instrument Ground School	3
ANSC 222	Meat Animal Evaluation	2	NRM 452	Managing Natural & Rangeland using GIS	
ANSC 240	Meat Animal Eval & Mrkt		PLSC 110	World Food Crops	3
ANSC 320	Dairy Cattle Selection	1-2	PLSC 215	Weed Identification	1
ANSC 323	Fundamentals of Nutrition	3	PLSC 225	Principles of Crop Production	3
ANSC 330	Meat Selection, Grading & Judging	1-2	PLSC 315/L	Genetics/Genetics Lab	3/1
ANSC 331	Livestock Selection	1-2	PLSC 320	Principles of Forage Production	3
ANSC 357	Animal Genetics	3	PLSC 323	Principles of Weed Science	3
ANSC 463	Physiology of Reproduction	3	PAG 115L	Intro to Precision Ag Lab	1
ANSC 470	Applied Nutrition	4	PAG 215	Mapping of Precision Ag Data	3
ASM 234	3D Printing & Manufacturing		PAG 315	Electronic Systems in Precision Ag	3
BIOL 150	General Biology		PAG 454	Principles & Applications of Precision Ag	3
BIOL 150L	General Biology Lab		PPTH 324	Introductory Plant Pathology	3
BUSN 340	International Business	3	PPTH 454	Diseases of Field and Forage Crops	3
BUSN 487	Managerial Economics	4	SOIL 210	Introduction to Soil Science	3
COMM 212	Interpersonal Communication	3	SOIL 217	Introduction to Meteorology & Climatology	3
COMM 216	Intercultural Communication	3	SOIL 322	Soil Fertility & Fertilizers	3
COMM 308	Bus. & Prof. Speaking	3	SOIL 351	Soil Ecology	3
CSCI 479	Intro to Data Mining	3	PAG 455	Big Data Management in Precision Ag	3
ECON 105	Elements of Economics	3	PAG 475	Precision Ag Capstone	2
ECON 341	Intermediate Microeconomics	3	PAG 496	Field Experience/Internship	1
ECON 343	Intermediate Microeconomics	3	SOIL 410	Soils and Land Use	3
ENT 210	Insects, Humans & the Environment	3	SOIL 433	Soil Physics	3
ENT 350	General Entomology	3	SOIL 444	Soil Genesis and Survey	3
ENT 360	Economic Entomology	1-3	SOIL 447	Microclimatology	3
ENT 410	Intergrated Management of Pests	3	SOIL 465	Soil and Plant Analysis	3
ENT 470	Insect Ecology	3	SOIL 480	Soils and Pollution	3
FIN 320	Principles of Finance	3			
GEOG 105	Fundamentals of GIS				
GEOG 455	Introduction to Geographic Info Sys	4			
GEOG 456	Adv Geographic Info Sys	3			
GEOG 470	Remote Sensing	3			
GEOG 480	GIS Pattern Analysis & Modeling	3			

Program Elective Course Suggestions:

Students graduating from the ASM program have a variety of career goals and opportunities. The lists below suggest courses which may help students prepare for their field(s) of interest. The lists are not all-inclusive and some suggestions may not be appropriate, e.g., livestock courses for crop farmers. The courses listed here meet the "Program Electives" category of the ASM curriculum. Prerequisite courses are not listed and may not count toward "Program Electives."

Production Ag

AGEC 242	Introduction to Agricultural Mangement
AGEC 244	Agricultural Marketing
AGEC 246	Introduction to Agricultural Finance
ANSC 114	Introduction to Animal Sciences
ANSC 123	Feed and Feeding
ANSC 220	Livestock Production
and/or	add'l ANSC courses for specific animals as approp.
ENT 210	Insects, Humans and the Environment
or ENT 350	General Entomology
or ENT 360	Economic Entomology
PLSC 110	World Food Crops
PLSC 215	Weed Identification
PLSC 225	Principles of Crop Production
and/or	add'l PLSC courses for specific crops as approp.
PPTH 324	Introductory Plant Pathology
PPTH 454	Diseases of Field and Forage Crops
SOIL 210	Introduction to Soil Science
SOIL 217	Introduction to Meterology & Climatology
SOIL 322	Soil Fertility and Fertilizers
and/or	add'l SOIL courses as approp.

Precision Agriculture

GEOG 105	Fundamentals of Geographic Info Systems (GIS)
GEOG 455	Intro. to Geographic Information Systems
GEOG 456	Adv. Geographic Inormation Systems
GEOG 470	Remote Sensing
GEOG/GEOG 480	GIS Pattern Analysis & Modeling
PAG 115L	Intro to Precision Ag Lab
PAG 215	Mapping of Precision Ag Data
PAG 315	Electronic Systems in Precision Ag
PAG 454	Principles & Applications of Precision Ag
PAG 455	Big Data Management in Precision Ag
PAG 475	Precision Ag Capstone
PAG 496	Field Experience/Internship
SOIL 210	Intro. to Soil Science
SOIL 322	Soil Fertility and Fertilizers
ME 311	Intro to Aviation
ME 312	Intro to Flight
ME 313	Commercial Instrument Ground School

Ranching

ANSC 114	Introduction to Animal Sciences
ANSC 220	Livestock Production
ANSC 331	Livestock Selection
ANSC 357	Animal Genetics
ANSC 463	Physiology of Reproduction
ANSC 470	Applied Nutrition
and/or	add'l ANSC courses as approp.
RNG 336	Intro to Range Management
RNG 450	Range Plants
RNG 452	Geographic Info Systems in Range Survey
RNG 453	Rangeland Resources Watershed Mgmt
RNG 456	Range Habitat Mgmt
RNG 458	Grazing Ecology
RNG 462	Natural Resource & Rangeland Planning
and/or	add'l RNG courses as approp.
PLSC 110	World Food Crops
PLSC 215	Weed Identification
PLSC 225	Principles of Crop Production
PLSC 320	Principles of Forage Production
PLSC 323	Principles of Weed Science
PLSC 323	Principles of Weed Science
PLSC 433	Weed Biology & Ecology
PLSC 453	Advanced Weed Science
and/or	add'l PLSC courses as approp.
SOIL 210	Introduction to Soil Science
SOIL 217	Introduction to Meterology & Climatology
SOIL 332	Soil Fertility and Fertilizers
SOIL 410	Soils and Land Use
and/or	add'l SOIL courses as approp.
PPTH 454	Diseases of Field and Forage Crops

Agricultural Sales

AGEC 242	Introduction to Agricultural Mangement
AGEC 244	Agricultural Marketing
AGEC 246	Introduction to Agricultural Finance
AGEC 344	Agricultural Price Analysis
AGEC 347	Principles of Real Estate
AGEC 444	Commodity Trading
AGEC 446	Agribusiness Finance
AGEC 450	National AgriMarketing Association (NAMA)
AGEC 474	Cooperatives
and/or	add'l AGEC courses as approp.
PLSC 215	Weed Identification
PLSC 323	Principles of Weed Science
COMM 212	Interpersonal Communication
COMM 308	Business and Professional Speaking
BUSN 487	Managerial Economics

Grain Marketing

AGEC 242	Introduction to Agricultural Mangement
AGEC 244	Agricultural Marketing
AGEC 246	Introduction to Agricultural Finance
AGEC 344	Agricultural Price Analysis
AGEC 444	Commodity Trading
AGEC 446	Agribusiness Finance
and/or	add'l AGEC courses as approp.
SOILS 210	Introduction to Soil Science
SOILS 322	Soil Fertility and Fertilizers
PLSC 110	World Food Crops
PLSC 215	Weed Identification
PLSC 315/L	Genetics & Lab
PLSC 323	Principles of Weed Science
PLSC 335	Seed Technology & Production
PLSC 340	Grain Grading