KANSAS STATE UNIVERSITY | Department of Agricultural Economics

AG ECON MAJOR/QUANTITATIVE OPTION
Program of Study for B.S. Degree in Agriculture (Effective Fall 2018)

First Semester | Cr.
			Cr.	
ENGL	100	Expository Writing I	3	
MATH	220	Analytic Geometry & Calculus I	4	
AGEC	105	Ag Econ & Agbus Orientation	1	
AGEC	115	Decision Tools for Ag Econ & Agbus	2	
PSYCH	110	General Psychology	or	
SOCIO	211	Intro to Sociology	3	
		Ag or Food Science Elective	3-4	

Second Semester | Cr.
			Cr.	
MATH	221	Analytic Geometry & Calculus II	4	
AGEC	120	Ag Econ & Agribusiness	3	
COMM	105	Public Speaking IA	2	
		Natural Science Elective	4	

Third Semester | Cr.
			Cr.	
ENGL	200	Expository Writing II	3	
ECON	110	Principles of Macroeconomics	3	
MATH	222	Analytic Geometry & Calculus III	4	
AGEC	315	Cont. Iss. in Glob. Fd. & Ag. Syst.	3	
		Electives (restricted and free)	3-6	

Fourth Semester | Cr.
			Cr.	
PHILO	110	Intro Formal Logic	3	
AGEC	500	Production Economics	3	
ACCTG	231	Acctg. for Business Operations	3	
		Natural Science Elective	4	
			3	

Communication Elective: *Communication (above 300), English (above 210), AGCOM 400 or a Modern Language.*

Fifth Semester | Cr.
			Cr.	
STAT	510	Intro Probability & Statistics I	or	
STAT	350	Business & Economics Statistics I	3	
AGEC	501	Data Analysis & Optimization	3	
AGEC	505	Ag Market Structures	3	
ACCTG	241	Acctg. for Investing & Finance	3	
		Electives (restricted and free)		
			3	

Communication Elective: *Communication (above 300), English (above 210), AGCOM 400 or a Modern Language.*

			3	

Social Science Elective: AMETH, ANTH, HDFS 350, GEOG, GWSS, HIST, POLSC, PSYCH, and SOCIO

Sixth Semester | Cr.
			Cr.	
STAT	511	Intro Probability & Statistics II	or	
STAT	351	Business & Economics Statistics II	3	
MATH	551	Applied Matrix Theory	3	
CIS	111		3	
		Electives (restricted and free)	5-6	

Seventh Semester | Cr.
			Cr.	
ECON	510	Intermediate Macroeconomics	3	
		Electives (restricted and free)	13	

Eighth Semester | Cr.
			Cr.	
		Electives (restricted and free)	16 crs.	

Natural Science Electives | 8 crs. total
CHM	110	General Chemistry	3	
AND				
CHM	111	General Chemistry Lab	1	
BIOL	198	Principles of Biology	4	
PHYS	113	General Physics I	4	

Free Electives (15 crs. total)

Quantitative Electives | 6 crs. total
AGEC	605	Price Analysis & Forecasting	3	
AGEC	712	Optimization Tech Ag Econ	3	
ECON	630	Intro to Econometrics	3	
ECON	686	Econ Forecasting	3	
ECON	735	Mathematical Economics	3	
GEOG	508	Geographic Info System 1	3	
IMSE	541	Statistical Quality Control	3	
IMSE	560	Intro to Operations Research I	3	
MATH	312	Finite Applications of Mathematics	3	
MATH	340	Elementary Differential Equations	4	
MATH	540	Advanced Ordinary Diff Equations	3	
MATH	670	Mathematical Modeling	3	
MATH	755	Dynamic Modeling Processes	3	
MANGT	421	Intro to Operations Management	3	
MANGT	521	Managerial Decision Analytics	3	
MKTG	642	Marketing Research	3	
STAT	410	Probabilistic Systems Modeling	3	
STAT	705	Regression & Analysis	3	
STAT	706	Basic Elements of Stat. Theory	3	

Ag Econ Electives | Cr. 15 crs. total
See Ag. Econ. Elective Requirements
AGEC	308	Farm & Ranch Management	3	
AGEC	318	Food & Agbus Management	3	
AGEC	410	Ag Policy	3	
AGEC	420	Commodity Futures Markets	3	
AGEC	460	Int'l Food & Agbus Study Tour	3	
AGEC	470	Cooperative Management	3	
AGEC	513	Ag Finance	3	
AGEC	515	Food & Agribusiness Marketing	3	
AGEC	516	Ag Law & Economics	3	
AGEC	520	Market Fund & Fut/Opt Trading	3	
AGEC	525	Natural Resource & Envir Econ	3	
AGEC	535	Agricultural Sales	3	
AGEC	570	Food Manuf. Distrib. & Retailing	3	
AGEC	598	Farm Management Strategies	3	
AGEC	599	Food & Agbus Mngt. Strategies	3	
AGEC	605	Price Analysis & Forecasting	3	
AGEC	610	Cur Ag & Nat. Res. Pol. Issues	3	
AGEC	615	Global Ag Development	3	
AGEC	623	International Ag Trade	3	
AGEC	632	Agribusiness Logistics	3	
AGEC	680	Risk Management	3	
AGEC	710	Comparative Food & Ag Systems	3	
AGEC	712	Optimization Tech. for Ag Econ	3	
AGEC	751	Risk Mgmt. Fellows Seminar	1	
GENAG	515	Honors/Scholars Project	2	

Ag & Food Science Technology | Cr. 6
AGRON	220	Crop Science	or	
HORT	201	Principles of Horticultural Science	4	
AGRON	305	Soils	4	
AGRON	330	Weed Science	3	
ATM	160	Engineered Systems & Tech. in Ag	3	
ASI	102	Principles of Animal Science	3	
ASI	105	Animal Sciences & Industry	1	
ASI	106	Dairy & Poultry Science	1	
ASI	318	Fundamentals of Nutrition	3	
ASI	320	Principles of Feeding	3	
FDSCI	302	Intro to Food Science	3	
FDSCI	305	Fundamentals of Food Processing	3	
GRSC	101	Intro to Grain Science & Industry	3	

(see department list for other courses)

Degree Credit Requirements
1. Required — 127 crs. total
2. Transfer credits applied to degree
3. KSU credit required

Advisor Recommendations

*Ag. Econ. Elective Requirements
- Must include at least one numbered 598 or above.
- No more than 3 combined total credits from AGEC 460, AGEC 751, and GENAG 515 can be used toward Ag Electives.

Finance Overlay:
Must include either AGEC 513 or FINAN 450

Courses numbered below 100 will not be applied to degree requirements.

Except for free electives all courses applied to graduation must be taken for a grade.

Maximum number of credits from 2 year institution(s) is 63.

20 of the last 30 credits must come from KSU.

Kansas Board of Regents requires all graduates to complete 45 credits at or above the 300 level.

K-State 8
(See reverse side)

Effective: 5/15, 4/16, 9/2016, 2/2018

K-State 8
General Education Requirement

You must successfully complete courses/experiences for credit to cover all of the K-State 8 areas. If you plan well this **should not** add additional hours to the 127 credits required for the Ag Econ/Agbus degree. When a course is tagged for two areas, you **may count that course toward both requirements**. (A course can only be used for two tags.) You must have a **minimum of four course prefixes** (AGEC) from different departments. Equivalent transfer classes will satisfy the K-State 8 requirements. *The courses listed are some of the most common ways for you to meet the requirements.*
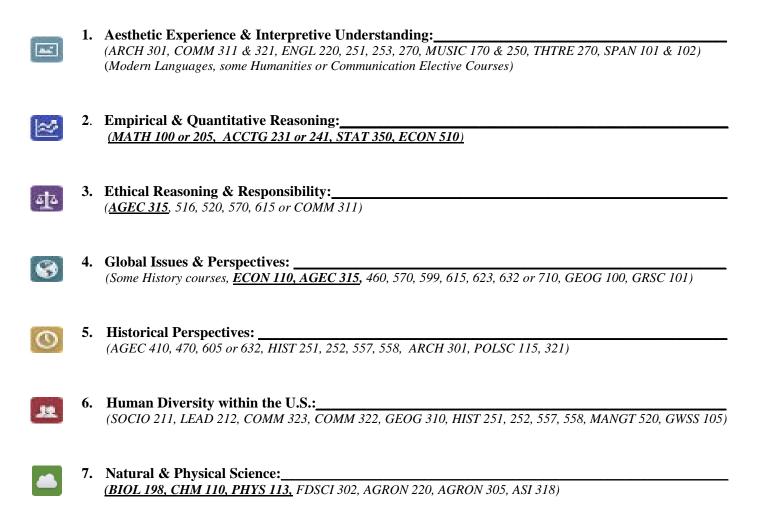
Locating Tagged Courses:
* Course are tagged in the Line Schedule
* Course are tagged in the University Catalog
* You can search for tagged classes by category in KSIS search

1. **Aesthetic Experience & Interpretive Understanding:** _____
   (ARCH 301, COMM 311 & 321, ENGL 220, 251, 253, 270, MUSIC 170 & 250, THTRE 270, SPAN 101 & 102)
   (Modern Languages, some Humanities or Communication Elective Courses)

2. **Empirical & Quantitative Reasoning:** _____
   *(**MATH 100 or 205, ACCTG 231 or 241, STAT 350, ECON 510**)*

3. **Ethical Reasoning & Responsibility:** _____
   *(**AGEC 315**, 516, 520, 570, 615 or COMM 311)*

4. **Global Issues & Perspectives:** _____
   *(Some History courses, **ECON 110, AGEC 315,** 460, 570, 599, 615, 623, 632 or 710, GEOG 100, GRSC 101)*

5. **Historical Perspectives:** _____
   (AGEC 410, 470, 605 or 632, HIST 251, 252, 557, 558, ARCH 301, POLSC 115, 321)

6. **Human Diversity within the U.S.:** _____
   (SOCIO 211, LEAD 212, COMM 323, COMM 322, GEOG 310, HIST 251, 252, 557, 558, MANGT 520, GWSS 105)

7. **Natural & Physical Science:** _____
   *(**BIOL 198, CHM 110, PHYS 113,** FDSCI 302, AGRON 220, AGRON 305, ASI 318)*

8. **Social Science:** _____
   *(**AGEC 120, 121,** 308, 318, 500, 505, 525, 598 or 610, ECON 110, ECON 510, PSYCH 110, SOCIO 210, MKTG 400, MANGT 420)*