



AG ECON MAJOR/QUANTITATIVE OPTION

Program of Study for B.S. Degree in Agriculture (Effective Fall 2012)

Name: _____

ID#: _____

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|---|------------|-------|
| First Semester | 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 | _____ |

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| Third Semester | 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 | _____ |

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| Fifth Semester | 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 | _____ |
| AGCOM 400 Ag Business Communications | or | _____ |
| ENGL 516 Written Comm. for the Sciences | 3 | _____ |
| Electives (restricted and free) | 3 | _____ |

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

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

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| 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 | _____ |

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| Free Electives (13 crs. total) | | |
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| Second Semester | Cr. | |
| MATH 221 Analytic Geometry & Calculus II | 4 | _____ |
| AGEC 120 Ag Econ & Agribusiness | 3 | _____ |
| COMM 105 Public Speaking IA | 2 | _____ |
| Natural Science Elective | 4 | _____ |
| _____ | 3 | _____ |
| Humanities Elective: ARCH 301, ART, DANCE, ENGL (above 210), MUSIC, Modern Language, HIST, PHILO, and THRE | | _____ |

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| Fourth Semester | Cr. | |
| PHILO 130 Intro to Moral Philosophy | or | _____ |
| PHILO 135 Intro to Social & Political Philosophy | 3 | _____ |
| AGEC 500 Production Economics | 3 | _____ |
| ACCTG 231 Acctg. for Business Operations | 3 | _____ |
| Natural Science Elective | 4 | _____ |
| _____ | 3 | _____ |
| Communication Elective: <i>Communication (above 300), English (above 210), or a Modern Language.</i> | | _____ |

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| Sixth Semester | Cr. | |
| STAT 511 Intro Probability & Statistics II | or | _____ |
| STAT 351 Business & Economics Statistics II | 3 | _____ |
| MATH 551 Applied Matrix Theory | 3 | _____ |
| CIS 200 Programming Fundamentals | 4 | _____ |
| Electives (restricted and free) | 5-6 | _____ |

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| 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 | _____ |
| IMSE 560 Intro to Operations Research I | 3 | _____ |
| IMSE 541 Statistical Quality Control | 3 | _____ |
| MATH 240 Elementary Differential Equations | 4 | _____ |
| MATH 312 Finite Applications of Mathematics | 3 | _____ |
| 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 Quantitative Management | 3 | _____ |
| MKTG 642 Marketing Research | 3 | _____ |
| STAT 410 Probabilistic Systems Modeling | 3 | _____ |
| STAT 706 Basic Elements of Stat. Theory | 3 | _____ |
| STAT 705 Regression & Correlation Analysis | 3 | _____ |

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| Ag Econ Electives | Cr. | |
| Include at least two numbered 598 or above | 15 crs. total | |
| 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 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 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 | _____ |
| GENAG 515 Honors/Scholars Project | 2 | _____ |

Must include either AGECE 513 (as Ag. Econ. Elective) or FINAN 450 (as Free Elective).

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| Ag & Food Science Technology Electives | Cr. | |
| 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 | _____ |
| FDSCI 302 Intro to Food Science | 3 | _____ |
| FDSCI 305 Fundamentals of Food Processing | 3 | _____ |
| ASI 318 Fundamentals of Nutrition | 3 | _____ |
| ASI 320 Principles of Feeding | 3 | _____ |
| GRSC 101 Intro to Grain Science & Industry | 3 | _____ |

(see department list for other courses)

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| Degree Credit Requirements | |
| 1. Required | 127 crs. total |
| 2. Transfer credits applied to degree | _____ |
| 3. KSU credit required (line 1 - line 2 - line 2) | _____ |

SIGNATURE OF APPROVAL

Student _____ Date _____

Academic Advisor _____ Date _____

Department _____ Date _____

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 crs. must come from KSU.

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

If specialty is Modern Language, students must make sure they complete 45 crs. at the 300 level or above.

K-State 8
(See reverse side)