

| K-State Core Courses | | See K-State Core List at https://www.k-state.edu/general-education/students/ | | 34-35 |
|--|--|--|---------------|-------|
| Required Section | | Required Course | | |
| Written Communication 6 hours | | ENGL 100: Expos. Writing I <i>F, S, U, O</i> | | 3 |
| | | ENGL 200: Expos. Writing II <i>F, S, U, O</i> Prereg: ENGL 100 | | 3 |
| Oral Communication 3 hours | | COMM 106: Pub Speaking I <i>F, S, U, O</i> Transfer may apply interspersnl comm | | 3 |
| Any course applied in the following K-State Core sections that is also applied to other degree requirements, such as those identifies as Overlap Courses, increases available electives. | | | | |
| Required Section | | Overlap Courses | Options | |
| Math & Statistics 3 hours | | MATH 100 | KSU Core List | |
| Science 4-5 hours, lab required | | BIOL 198 or CHM 110 & 111 | KSU Core List | |
| Social & Behavioral Science 6 hours in 2 subject areas | | AGEC 120 or ECON 110 | KSU Core List | |
| | | n/a | KSU Core List | |
| Arts & Humanities 6 hours in 2 subject areas | | AGCOM 222, COMM 120, 210, 260, or MC 110 (3) | KSU Core List | |
| | | ENGL (170-187, 220-299), ENTOM 202, Foreign Lang. | KSU Core List | |
| Institutionally Designated 6 hours | | First 6 hours of 100- and 200-level courses taken and not applied above | | |

| Math & Science Foundations | | | | 11 |
|---------------------------------------|--|---|--|----|
| Mathematics 3 hours | | MATH 100: College Algebra <i>F, S, U, O</i> | | 3 |
| Biology for Science Majors 4 hours | | BIOL 198: Prin. of Biology <i>F, S, U, O</i> | | 4 |
| Chemistry 4 hours | | CHM 110: Gen Chemistry <i>F, S, U, O</i> | | 3 |
| | | CHM 111: Gen Chem Lab <i>F, S, U, O</i> Prereg: CHM 110 or conc enrollment | | 1 |

| Animal Science Core | | | | 19-20 |
|---|--|--|--|-------|
| Foundations in Animal Sci 1 course | | ASI 101: First-time students <i>I, F</i> ASI 301: Transfer students <i>O, F, S</i> | | 0-1 |
| Introduction 3 hours | | ASI 102: Prin. Anim. Sci <i>F, S</i> | | 3 |
| Species-Focused Laboratories 3 hours | | ASI 105: Animal Sci Lab <i>F, S</i> | | 1 |
| | | ASI 106: Dairy Lab <i>F, S</i> | | 0.5 |
| | | ASI 107: Comp. Anim. Lab <i>F, S</i> | | 0.5 |
| | | ASI 108: Poultry Lab <i>F, S</i> | | 0.5 |
| | | ASI 109: Horse Lab <i>F, S</i> | | 0.5 |
| Anatomy & Physiology 3 hours | | ASI 150: Anatomy & Phys <i>F, S</i> | | 3 |
| Animal Nutrition 3 hours | | ASI 202: Animal Nutrition <i>F, S</i> Prereg: MATH 100 | | 3 |
| Professional Skills 1 hour | | ASI 300: Career Prep ASI <i>F, S</i> Prereg: ASI Major, Soph status | | 1 |
| Animal Reproduction 3 hours | | ASI 400: Animal Repro. <i>F, S</i> Prereg: ASI 102, BIOL 198, Soph status | | 3 |
| Industry Issues 3 hours | | ASI 595: Issues in Anim Sci <i>F, S</i> | | 3 |
| Applied Learning Experience | | All ASI students must complete at least one course representing the completion of an applied learning experience in animal science. Example experiences include internships, education abroad, competition teams, or undergraduate research. See back for more info. | | |

| Animal Science Concentration Area | | | | 25 |
|---|--|--|--|----|
| Animal Products 3 hours | | ASI 350: Meat Science <i>F, S</i> Prereg: BIOL 198/CHM ASI 361: Meat Processing <i>F, S</i> Prereg: Soph status ASI 405: Milk Processing <i>F</i> Prereg: BIOL 198 ASI 601: Endocrinology/Lactation <i>F</i> Prereg: BIOL 198, Jr ASI 640: Poultry Products Technology <i>F</i> even ASI 695: Equine Exercise Physiology <i>F</i> Prereg: Jr status | | 3 |
| Animal Breeding & Genetics 4 hours | | ASI 500: Genetics (3) <i>S</i> Prereg: BIOL 198, MATH 100, Jr status ASI 501: Prin. Anim. Breeding (1) <i>F</i> Prereg: ASI 500 or ASI 511: Appl. Anim. Breeding & Genetics (4) F Prereg: BIOL 198, MATH 100, Jr status | | 4 |
| Animal Management 6 hours | | ASI 515: Beef Science <i>F, S</i> Prereg: Jr status ASI 520: Companion Animal Mangt <i>S</i> Prereg: Jr status ASI 521: Horse Science <i>S</i> Prereg: Jr status ASI 524: Sheep & Meat Goat Science <i>F</i> Prereg: Jr status ASI 535: Swine Science <i>F, S</i> Prereg: Jr status ASI 621: Dairy Cattle Management <i>F</i> Prereg: Jr status ASI 645: Poultry Management <i>F</i> odd Prereg: Jr status | | 3 |
| | | Any ASI course from ASI 300 to 799 | | 3 |
| Animal Science Specialization Courses 12 hours at 300-level+ | | _____ | | |

| Build Breadth for Your Unique Goals | | | | 30 |
|--|--|--------------------|--|----|
| Ag Course 3 hours at 300-level+ | | Block A Dept. List | | |
| Business Courses 6 hours at 300-level+ | | Block B Dept. List | | |
| | | _____ | | |
| Applied or Foundational Science Courses 6 hours | | Block C Dept. List | | |
| | | _____ | | |
| Additional Specialization Courses 15 hours 7 hours at 300-level+ | | Block D Dept. List | | |
| | | _____ | | |

| Maintain Flexibility | | | | Up to 23 |
|--|--|---|--|----------|
| Unrestricted Electives Number varies to total of 120 undergraduate credits earned | | + 3 if MATH 100 is applied in the Mathematics & Statistics section of the K-State Core | | |
| | | + 4 if BIOL 198 or CHM 110 + 111 is applied in the Natural & Physical Sciences of K-State Core | | |
| | | + 3 if a 3-hr course from Social & Behavioral Sci is also applied to Specialization Electives/Block D | | |
| | | + 3 if a 3-hr course from Arts & Humanities is also applied to Specialization Electives/Block D | | |
| | | + 3 if another 3-hr course from Arts & Humanities is applied to Spec. Electives/Block D | | |
| | | + 6 for courses from Institutionally Designated area applied to any other degree requirements | | |
| | | + 1 if ASI 301 is applied instead of ASI 101 | | |

- 120 Hours Total (max. 60 from a 2-year College)
- 45 Hours at the 300-Level or Above

K-State Core Courses Most Often Taken by ASI Majors

See the full list of current courses at <https://www.k-state.edu/general-education/students/>

Social & Behavioral Sciences

| | | |
|-----------|--------------------------------|---------------|
| AGEC 120 | Ag Econ and Agribus | 3, F, S, U, O |
| ECON 110 | Principles of Macroecon | 3, F, S, U, O |
| GEOG 100 | World Geography | 3, F, S, U, O |
| POLSC 115 | U.S. Politics | 3, F, S, U, O |
| POLSC 250 | Futre of Food, Air, Water Soil | 3, S |
| PSYCH 110 | General Psychology | 3, F, S, U, O |
| SOCIO 211 | Intro to Sociology | 3, F, S, U, O |

Arts & Humanities Courses

| | | |
|-----------|--------------------------|---------------|
| AGCOM 222 | Ag Bus Communications | 3, F, S, O |
| ART 102 | Ceramics for Non-Majors | 3, F, S |
| ART 103 | Jewelry Dsgn Non-Majors | 3, F, S |
| ART 106 | Art Appreciation | 3, U, O |
| CLSCS 105 | Medicl Trmnlgy: Ltn/Grek | 2, S, O |
| ENGL 251 | Intro to Literature | 3, S |
| ENTOM 202 | Art and Insects | 3, F, S, U, O |
| HIST 111 | World History to 1450 | 3, F, S |
| HIST 112 | World History from 1450 | 3, F, S |
| HIST 151 | History of US to 1877 | 3, F, S, O |
| HIST 152 | Hist of US Since 1877 | 3, F, S, U, O |
| MC 110 | Mass Comm. in Soc | 3, F, S, U, O |
| MUSIC 114 | Cat Band | 0-1, F, S |
| MUSIC 115 | Marching Band | 0-1, F |
| MUSIC 170 | History of Rock & Roll | 3, F, S, U, O |
| MUSIC 172 | Hist of Country Music | 3, F, S, U, O |
| SPAN 110 | Spanish in the Workplace | 3, S |

Applied Learning Experience

The most impactful education is when students apply practical experiences outside the conventional classroom with the scientific concepts they learned through formal courses. Each student must enroll in at least one course designated as an applied learning experience. To qualify, experiences must emphasize verbal or written communication, professional and ethical behavior, application of adv. animal science knowledge, critical thinking, and problem-solving. Example courses include:

| | | |
|---------|------------------------------------|--|
| ASI 310 | Poultry and Poultry Product Eval | 2, F |
| ASI 326 | Adv. Horse Evaluation | 2, F Prereq: ASI 325 |
| ASI 385 | Wool Grading and Evaluation | 1, F |
| ASI 420 | Adv. Dairy Cattle Judging | 1, F Prereq: ASI 396 |
| ASI 470 | Form and Function in Livestock | 2, F Prereq: ASI 390 |
| ASI 495 | Adv. Meat Evaluation | 2, F Prereq: ASI 470 |
| ASI 560 | Course-Based Undergrad Rsrch | 2, F, S |
| ASI 561 | Undergrad Rsrch (mentored) | 0-3 F, S Prereq: Identify faculty mentor and their approval |
| ASI 599 | ASI Internship | 1-6, F, S |
| ASI 660 | International Experience ASI | 0-6 F, S |
| ASI 661 | ASI Special Problems (independent) | Prereq: Identify faculty mentor, receive consent to enroll *Not all experiences apply. Request approval in WB 134 |
| ASI 662 | Special Topics in Animal Sci | 0-6 F, S *Not all experiences apply. Request approval in WB 134 |

Courses outside ASI but with similar intent may fulfill this requirement if they include the application of adv. animal sci. knowledge. Request approval in Weber 134.

Departmental Lists

Block A - Agriculture Courses

AGCOM, AGECE, AGED, AGRON, ENTOM, FDSCI, FOR, GENAG, GRSC, HORT, PMC, PLPTH, UFS, WOEM

Block B - Business Courses

ACCTG, AGECE, BUS, ECON, ENTRP, FINAN, LEAD, MANGT, MIS 366, MKTG, STAT, SALES

Block C - Applied & Foundational Science Courses

| | |
|-------|---|
| ASI | 210, 290, 302, 533, 540, 560, 561, 600, 601, 658, 675, 680, 695 |
| AGRON | 120, 121, 202, 205, 206, 251, 330, 335, 360, 462, 490, 660, 661, 681 |
| BIOCH | 110, 111, 265, 266, 521, 522, 571 |
| | 221, 255, 330, 401, 410, 435, 441, 442, 450, 510, 511, 513, 515, 520, |
| BIOL | 521, 529, 530, 541, 542, 543, 544, 580, 604, 640, 642, 670, 671, 675, 676 |
| CHM | 350, 351, 371, 372, 500, 531, 532, 545, 550, 551, 566, 585, 595, 596 |
| DMP | 313, 314, 610, 611, 650, 690, 691, 710, 725, 726, 754 |
| ENTOM | 305, 306, 312, 399 |
| FDSCI | 202, 305, 501, 530, 600, 601, 625, 690, 695, 711 |
| FNDH | 400, 412 |
| GRSC | 312, 500, 602, 620, 645, 650, 661 |
| HORT | 201 |
| MATH | 150, 151, 160, 205, 210, 211, 215, 216, 220, 221, 222 |
| PHYS | 113 or 213, 114 or 214 |
| PLPTH | 610 |
| STAT | 225 or 240 or 250, 341 or 351, 510, 511, 701, 703, 705, 720 |

Block D - Major Specialization Elective Courses

ASI, ACCTG, AGCOM, AGECE, AGED, AGRON, ANTH 315 or 383, ARAB, ATM, BIOCH, BIOL, BUS, CHINE, CHM, CC, CIS, CLSCS, CMST, COMM (not 106), CYBR, DMP, ECON, ENGL (not 100 or 200), ENSCI, ENTOM, ENTRP, DIGME, FDSCI, FNDH, FINAN, FREN, GENAG, GENBA, GEOG 360 or 460, GRAD 740, GRSC, GRMN, HIST 557, HORT, IDFS, ITAL, JAPAN, KIN 110 or 312, LATIN, LEAD, MANGT, MATH (not 100 or 199), MC, MIS, MKTG, MLAS, MPH, PFP, PHIL 365 or 565, PHYS, PMC, PSYCH 370 or 470, SALES, SOCIO 363 507, 533 or 536, SPAN, STAT, WOEM

Example: Earn a B.S. in Animal Sciences & Industry + simultaneous minor in Agricultural Economics + certificate in Beef Cattle Ranch Managt

| | | | |
|---|----------|-----------------------|---|
| Animal Science Specialization Electives | ASI 302 | Adv. Animal Nutrition | 3, F, S Prereq: ASI 202, MATH 100, CHM, BIOL |
| | ASI 402 | Calving | 1, S |
| | ASI 512 | Bovine Repro Tech | 2, F Prereq: ASI 400, Senior status |
| | ASI 599 | ASI Internship | 2, F, S, U |
| | ASI 620 | Beef Systems Mangt | 2, S Prereq: ASI 515 |
| | ASI 680 | Ruminant Nutrition | 1, S Prereq: ASI 302 |
| Block A | ASI 683 | Grazng Lvstck Nutritn | 1, S Prereq: ASI 680/concurrent enrollment |
| | AGEC 308 | Farm & Ranch Mangt | 3, F Prereq: AGECE 120 or 121 or ECON 120 |

Specialization Courses in ASI

Courses can be applied in ASI specialization electives, Block D, or unrestricted electives

| | | |
|-----|--------------------------------------|--|
| 100 | Special Topics in Animal Sci | 0-6, F, S Prereq: Instr. Consent |
| 210 | Intro to Animal Biotechnology | 3, F Prereq: Fresh or Soph |
| 261 | Animal Science Problems | 0-6, F, S, U Prereq: Instr. Consent |
| 262 | Special Topics in Animal Science | 0-6, F, S |
| 290 | Computer Apps in Animal Science | 3, F, S |
| 302 | Adv. Animal Nutrition | 3, F, S Prereq: ASI 202, CHM, BIOL |
| 310 | Poultry and Poultry Product Eval | 2, F |
| 315 | Livestock and Meat Evaluation | 3, S Prereq: ASI 105 |
| 325 | Beginning Horse Evaluation | 2, S |
| 326 | Advanced Horse Evaluation | 2, F Prereq: ASI 325 |
| 333 | Equine Enterprise Management | 2, F Prereq: ASI 325 |
| 345 | Beginning Horse Training & Mangt | 2, F (Equine Sci Cert) |
| 350 | Meat Science | 3, F, S |
| 361 | Meat Animal Processing | 3, F, S Prereq: Soph. status |
| 370 | Principles of Meat Evaluation | 2, F |
| 385 | Wool Grading and Evaluation | 1, F |
| 390 | Principles of Livestock Selection | 2, F |
| 395 | Intermediate Horse Training & Mangt | 2, F (Equine Sci Cert) |
| 396 | Dairy Cattle Judging | 2, S |
| 401 | Farm Animal Repro Lab | 1, S Prereq: ASI 400 or conc enroll. |
| 402 | Calving | 1, S |
| 403 | Foaling | 1, S Prereq: Soph. status (Equine Sci Cert) |
| 404 | Lambing | 1, S |
| 405 | Fundamentals of Milk Processing | 3, F Prereq: BIOL 198 |
| 420 | Advanced Dairy Cattle Judging | 1, F Prereq: ASI 396 |
| 422 | Livestock Sales Management | 0-1, F, S |
| 444 | Equine Health | 3, F Prereq: Soph. status (Equine Sci Cert) |
| 470 | Form and Function in Livestock | 2, F Prereq: ASI 390 |
| 495 | Advanced Meat Evaluation | 2, F Prereq: ASI 370 |
| 504 | Equine Reproduction Management | 3, S Prereq: Jr Status |
| 505 | Equine Repro Mangt Lab | 1, S Prereq: ASI 504 or conc enroll |
| 512 | Bovine Reproductive Technology | 2, F Prereq: ASI 400, Sr |
| 515 | Beef Science | 3, F, S Prereq: Jr status |
| 520 | Companion Animal Management | 3, S Prereq: Jr status |
| 521 | Horse Science | 3, S Prereq: Jr status |
| 524 | Sheep and Meat Goat Science | 3, F Prereq: Jr status |
| 533 | Anatomy and Physiology | 4, F, S Prereq: BIOL 198 |
| 535 | Swine Science | 3, F, S Prereq: Jr status |
| 540 | Principles of Animal Disease Control | 3, S Prereq: Jr status |
| 560 | Course-Base Undergraduate Research | 2, F, S |
| 561 | Undergraduate Research ASI | 0-3, F, S Prereq: Instr. Consent |
| 599 | ASI Internship | 1-6, F, S, U Prereq: Dept. Consent |
| 600 | Applied Animal Biotechnology | 3, S Prereq: ASI 500 Jr status |
| 601 | Endocrinology and Lactation | 3, F Prereq: BIOL 198 Jr status |
| 610 | Processed Meat Operations | 2, S Prereq: ASI 350 |
| 620 | Beef Systems Management | 2, S Prereq: ASI 515 |
| 621 | Dairy Cattle Management | 3, F Prereq: Jr status |
| 635 | Gamebird Production and Management | 3, S |
| 640 | Poultry Products Technology | 3, F Prereq: ASI 515 |
| 645 | Poultry Management | 3, F Prereq: ASI 515 |
| 650 | ID & Data Mangt of Food Animals | 2, F Prereq: Jr status |
| 655 | Behavior Domestic Animals | 3, F Prereq: BIOL 198, Jr status |
| 658 | Animal Growth Development | 3, S Prereq: ASI 533, Jr status |
| 660 | Intl Study Experience ASI | 0-6, F, S, U Prereq: Instr. Consent |
| 661 | ASI Problems | 0-18, F, S, U Prereq: Instr. Consent |
| 662 | Special Topics in ASI | 0-6, F, S |
| 675 | Monogastric Nutrition | 1, F Prereq: ASI 302 |
| 676 | Avian Nutrition | 1, F Prereq: ASI 675 |
| 677 | Companion Animal Nutrition | 1, F Prereq: ASI 675 |
| 678 | Equine Nutrition | 1, F Prereq: ASI 675 |
| 679 | Swine Nutrition | 1, F Prereq: ASI 675 |
| 680 | Ruminant Nutrition | 1, S Prereq: ASI 302 |
| 681 | Dairy Cattle Nutrition | 1, F Prereq: ASI 680 |
| 682 | Formulatn Livstck Poultry Diets | 1, F Prereq: ASI 675 or 680 |
| 683 | Grazing Livestock Nutrition | 1, F Prereq: ASI 680 |
| 684 | Nutrition of Feedlot Cattle | 1, F Prereq: ASI 680 |
| 685 | Stored Forage System Ruminant Anim | 1, F Prereq: ASI 680 |
| 695 | Prin. of Equine Exercise Physiology | 3, F Prereq: Jr status |
| 710 | Physiology of Reproduction | 3, S Prereq: ASI 400 |
| 776 | Meat Industry Technology | 3, F, S Prereq: ASI 350 |
| 777 | Meat Science & Muscle Biol | 3, F Prereq: ASI 350, Sr status |

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|---------|-----------|----------------------|---|
| Block C | AGRON 251 | Range Management | 3, F |
| | MATH 205 | Gen Calc Lin Algebra | 3, F, S |
| Block D | AGECE 120 | Ag Econ/Agribusiness | 3, F, S |
| | AGECE 420 | Commodity Futures | 3, F, S Prereq: AGECE 120 or 121 or ECON 120 |
| | AGECE 520 | Mkt Futures/Trading | 3, F, S Prereq: AGECE 420 |
| | ASI 315 | Livestock Meat Eval | 3, S Prereq: ASI 105 |
| | ASI 422 | Livestck Sale Mangt | 1, F, S |
| Block A | DMP 611 | Cow-Calf Health Sys | 2, F |