Approved Animal Sciences Specialty Support Courses
(Some may have pre-reqs)

**Accounting**
- ACC 201 Financial Accounting I (3)
- ACC 202 Managerial Uses of Accounting Information (3)

**Agriculture Economics:**
- AEC 300 Topics in Ag Econ (1-3)
- AEC 301 Career Readiness for Ag Econ (1)
- AEC 302 Ag Management Principles (4)
- AEC 303 Microeconomic Concepts in Ag Economics (3)
- AEC 305 Food & Ag Marketing Principles (3)
- AEC 306 Technical Communication in Economics (2)
- AEC 309 International Ag, World Food Needs & U.S. Trade in Ag Products (3)
- AEC 311 Livestock and Meat Marketing (3)
- AEC 312 Equine Markets (3)
- AEC 314 Grain Marketing (1)
- AEC 316 Cooperative Management & Marketing (1)
- AEC 317 Marketing Horticultural Products (1)
- AEC 320 Ag Produc Marketing & Sales (3)
- AEC 321 Ag Future Markets (3)
- AEC 324 Ag Law (3)
- AEC 325 Equine Law (3) (Spring)
- AEC 326 Principles of Environmental Law (3)
- AEC 340 Human Resource Management in Ag (3) (Spring)
- AEC 351 Intro to Analysis with Business Software (1)
- AEC 361 International Agribusiness and Food Systems (3)
- AEC 422 Agribusiness Management (3)
- AEC 425 Timber Management (4)
- AEC 441G Ag Financial Management (3)
- AEC 445G Intro Resource/Envir Economics (3)
- AEC 471 International Trade (3)
- AEC 479 Public Economics (3)
- AEC 483 Regional Economics (3)
- AEC 490 Quantitative Methods and Price Analysis (3)
- Any AEC 500 level course

**Agricultural Engineering**
- AEN 203 Basic Principles of Surveying (3)
- AEN 220 Principles of Internal Combustion Engines (3)
- AEN 252 Fabrication and Construction for Tech Systems (3)
- AEN 263 Agricultural Safety and Health (3)
- AEN 340 Principles of Food Engineering (4)
- AEN 341 Brewing Science & Technology (3)
- AEN 461G Biometeorology (3)
- AEN 462 Residential & Commercial Irrigation Design (3)

**Arts and Sciences**
- A&S 350 Personal Strengths & Career Dev (3)

**Biochemistry**
- BCH 401G Fundamentals of Biochemistry (3)
- BCH 419G Molecular Basis of Human Disease (3)

**Biology**
- BIO 208 Principles of Microbiology (3)
- BIO 209 Intro to Microbiology Lab (2)
- BIO 300 General Entomology (3)
- BIO 302 Introduction to Neuroscience (3)
- BIO 303 Introduction to Evolution (4)
- BIO 304 Principles of Genetics (4)
- BIO 305 Intro to Neuroscience Techniques (3)
- BIO 308 General Microbiology (3)
- BIO 309 Microbiology Lab (2)
- BIO 310 The Life Processes of Plants (3)
- BIO 315 Introduction to Cell Biology (4)
- BIO 325 Ecology (4)
- BIO 337 Math Modeling Life Science (3)
- BIO 340 Comparative Anatomy (5)
- BIO 350 Animal Physiology (4)
- BIO 351 Plant Kingdom (3)
- BIO 355 Biology Study Abroad (3)
- BIO 361 Ecology of the KY Flora and Vegetation (3)
- BIO 375 Behavioral Ecology & Sociology (3)
- BIO 380 Special Topics in Biology (1-4)
- BIO 404 Advanced Genetics (3)
- BIO 405 Human Genetics (3)
- BIO 410 Vertebrate Endocrinology (3)
- BIO 418 Ecological Genetics (3)
- BIO 420G Taxonomy of Vascular Plants (4)
- BIO 425 Biology Seminar (1)
- BIO 426 Neuroscience Seminar (1)
- BIO 427 Seminar in Microbiology (1)
- BIO 429 Developmental Biology (3)
- BIO 430G Plant Physiology (4)
- BIO 440 Comparative & Functional Anatomy (4)
- BIO 445 The Biology of Sex (3)
- BIO 446 Neurophysiology Lab (3)
- BIO 447 Animal Senses (3)
- BIO 450 Neurophysiology Lab (2)
- BIO 452G Lab in Ecology (2)
- BIO 461 Introduction to Population Genetics (3)
- BIO 476G General Microbial Physiology (4)
- BIO 494G Immunobiology (3)
- BIO 495G Bacterial Pathogenesis (3)
- Any BIO 500 level course

**Business & Economics**
- B&E 201 Introduction to Business (3)

**Chemistry**
- CHE 226 Analytical Chemistry (3)
- *CHE 230 Organic Chemistry I (3)
- CHE 231 Organic Chemistry Lab I (3)
- CHE 232 Organic Chemistry II (3)
- CHE 233 Organic Chemistry Lab II (1)
- *CHE 236 Survey of Organic Chemistry (3) (Spring)
- CHE 250 Forensic Science on TV (3)
- CHE 295 Organic Chemistry Workshop I (1)
- CHE 297 Organic Chemistry Workshop II (1)
- CHE 410G Inorganic Chemistry (2)
- CHE 412G Inorganic Chemistry Lab (2)
- CHE 422 Instrumental Analysis (4)
- CHE 440G Introduction Physical Chemistry (4)
- CHE 441G Physical Chemistry Lab (2)
- CHE 442 Thermodynamics and Kinetics (3)
- CHE 446G Physical Chemistry for Engineers (3)
- CHE 454 Biological Chemistry Lab (2)
- Any CHE 500 level course

*Must take CHE 230 or CHE 236

**Communication**
- COM 252 Intro Interpersonal Communication (3)

**Community & Leadership Development**
- CLD 204 Writing for Mass Media
- CLD 230 Intrapersonal Leadership (3)
- CLD 250 Reading Critically & Writing Well: Community Communications and Leadership Development (3)
- CLD 260 Community Portraits (3)
- CLD 300 Foundational Theories in Community and Leadership Development (3)
- CLD 305 Research Methods in Community and Leadership Development (3)
- CLD 320 Community and Communication (3)

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- CLD 325 Writing for Community Media (3)
- CLD 330 Interpersonal Leadership Skills (3)
- CLD 340 Community Interaction (3)
- CLD 360 Environmental Sociology (3)
- CLD 370 Learning in Society (3)
- CLD 375 Contemporary Adult Learning (3)
- CLD 401 Principles of Cooperative Extension (3)
- CLD 402 Principles of Leadership (3)
- CLD 403 Leadership and Communication (3)
- CLD 404 Contemporary Leadership Applications (3)
- CLD 420 Sociology of Communities (3)
- CLD 430 Leading in Communities: Vision, Action & Change (3)
- CLD 440 Community Processes and Communication (3)
- CLD 460 Community Development and Change (3)
- CLD 465 Topics in Community Communication (3)
- CLD 470 Topics in Leadership (3)
- CLD 475 Topics in Non-Formal Education (3)
- CLD 480 Topics in Community (3)
- CLD 495 Topical Seminar in Community Communications and Leadership Development (1-3)

**Economics**

- ECO 201 Principles of Economics I (3)
- ECO 202 Principles of Economics II (3)

**Entomology**

- ENT 300 General Entomology (3)
- ENT 310 Insect Pests of Field Crops (3)
- ENT 320 Horticultural Entomology (3)
- ENT 340 Livestock Entomology (2) (Spring)
- ENT 360 Genetics (3)
- ENT 402 Forest Entomology (3)
- ENT 460 Introduction to Molecular Genetics (3)
- ENT 461 Introduction to Population Genetics (3)
- ENT 502 Forest Entomology (3)
- ENT 505 Evolution in Ag, Medicine & Conservation Bio (3)
- ENT 509 Neuroscience of Pollination (3)
- ENT 530 Integrated Pest Management (3)
- ENT 550 Spider Ecology and Behavior (3)
- ENT 561 Insects Affecting Human & Animal Health (3)
- ENT 563 Parasitology (4)
- ENT 564 Insect Taxonomy (4)
- ENT 568 Insect Behavior (3)
- ENT 574 Advanced Applied Entomology (4)

**Equine Science & Management**

- EQM 300 Topics in Equine Science and Management (1-3)
- EQM 351 Equine Health and Diseases (3)

**Finance**

- FIN 250 Personal Investing & Financial Planning (3)

**Food Science**

- FSC 304 Animal Derived Food (5)
- FSC 306 Introduction to Food Processing (4)
- FSC 430 Sensory Evaluation of Foods (3)
- FSC 434G Food Chemistry (4)
- FSC 530 Food Microbiology (5)
- FSC 535 Food Analysis (4)
- FSC 536 Advanced Food Technology (4)
- FSC 538 Fermentation and Thermal Processing (4)
- FSC 540 Food Sanitation (3)

**Forestry**

- FOR 200 Basics of Geospatial Technology (2)
- FOR 219 Dendrology (4)

- FOR 221 Winter Dendrology (1)
- FOR 250 Statistics and Measurements I (3)
- FOR 255 Forest Fire (1)
- FOR 260 Forest Products and Wood Science (4)
- FOR 261 Wood Science and Anatomy (2)
- FOR 262 Wood Identification (2)
- FOR 280 Forest Policy (2)
- FOR 285 Communication and Professional Development in Forestry and Natural Resources I (1)
- FOR 286 Communication and Professional Development in Forestry and Natural Resources II (1)
- FOR 310 Introduction to Forest Health & Protection (3)
- FOR 320 Forest Valuation and Economics (3)
- FOR 325 Economic Botany: Plants & Human Affairs (3)
- FOR 330 GIS and Spatial Analysis (3)
- FOR 340 Forest Ecology (4)
- FOR 350 Silviculture (4)
- FOR 356 Landscape Assessment (5)
- FOR 357 Inventory and Measurements II (2)
- FOR 358 Silvicultural Practices (3)
- FOR 359 Forest Operations and Utilization (3)
- FOR 365 Wildlife Assessment (2)
- FOR 370 Wildlife Biology and Management (4)
- FOR 400 Human Dimensions of Forestry and Natural Resources (3)
- FOR 425 Forest Management (4)
- FOR 435 Conservation Biology (3) Can fulfill both UK Core Global Dynamics and Specialty Support
- FOR 460 Forest Hydrology & Watershed Management (4)
- FOR 461 Introduction to Population Genetics (3)
- FOR 470 Interdependent Natural Resource Issues (3)
- FOR 480 Integrated Forest Resource Management (5)
- FOR 502 Forest Entomology (3)
- FOR 510 Herpetology (4)
- FOR 520 Mammals of the Eastern United States (4)
- FOR 530 Freshwater Ecology (3)
- FOR 540 Urban Ecology (5)
- FOR 550 U.S. Biodiversity Hotspots (3)
- FOR 564 Forest Soils (3)
- FOR 570 Landscape Ecology for Natural Resources (3)

**General Agriculture**

- GEN 300 Special Course (1-3) Peer Instruction, CAFE Ambassador, AG LLP Peer Mentor Will Not Count
- GEN 305 Government in Agriculture (3)

**National Resources & Environmental Science**

- NRE 201 Natural Resources & Environmental Sci(3)
- NRE 320 Natural Resource & Environmental Analysis (3)
- NRE 355 Introductory Geospatial Applications for Land Analysis (3)
- NRE 381 Natural Resource & Environmental Policy Analysis (3)
- NRE 390 Special Topics in NRES (1-4)
- NRE 420G Taxonomy of Vascular Plants (4)
- NRE 450G Biogeochemistry (3)
- NRE 455G Wetland Delineation (3)
- NRE 456G Constructed Wetlands (3)
- NRE 470G Soil Nutrient Management (3)

**Plant & Soil Sciences**

- PLS 203 Home Horticulture (3)
- PLS 210 The Life Processes of Plants (3)
- PLS 220 Introduction to Plant Identification (3)
- PLS 240 Introduction to Floral Design (3) Can fulfill both UK Core Arts and Creativity and Specialty Support
- PLS 320 Woody Horticultural Plants (4)
- PLS 330 Herbaceous Horticultural Plants I (2)

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- PLS 332 Herbaceous Horticultural Plants II (2)
- PLS 335 Distillation, Wine and Brewing Science (3)
- PLS 336 Introduction to Viticulture Grape Production (3)
- PLS 337 Introduction to Enology: Wine Production (3)
- PLS 340 Floral Design for Life's Events (3)
- PLS 352 Nursery Production (3)
- PLS 366 Fundamental of Soil Science (4)
- PLS 386 Plant Production Systems (4)
- PLS 389 Wine Appreciation (3)
- PLS 390 Agroecology (3)
- PLS 396 Soil Judging (1-2)
- PLS 402 Fruit Crop Production (3)
- PLS 404 Integrated Weed Management (4)
- PLS 406 Advanced Soil Judging (1)
- PLS 408 Tobacco (3)
- PLS 410 Growth/Development of Horticulture Crops (3)
- PLS 440 Plant Propagation (3)
- PLS 450G Biogeochemistry (3)
- PLS 451 Landscape Management (3)
- PLS 455G Wetland Delineation (3)
- PLS 465 Greenhouse & Controlled Environments (3)
- PLS 468G Soil Use and Management (3)
- PLS 470G Soil Nutrient Management (3)
- Any 500 level PLS course

Physics
- PHY 211 General Physics I (5)
- PHY 213 General Physics II (5)
- PHY 228 Optics, Relativity and Thermal Physics (3)
- PHY 231 General University Physics (4)
- PHY 232 General University Physics (4)
- PHY 241 General University Physics Lab (1)
- PHY 242 General University Physics Lab (1)
- PHY 306 Theoretical Methods of Physics (3)
- PHY 335 Data Analysis for Physicists (1)
- PHY 361 Principles of Modern Physics (3)
- PHY 402G Electronic Instrumentation & Measurements (3)
- PHY 404G Mechanics (3)
- PHY 416G Electricity & Magnetism (3)
- PHY 417G Electricity & Magnetism (3)
- PHY 422 Computational Physics Lab (3)
- PHY 472G Interaction of Radiation with Matter (3)
- PHY 477 Physics and Astronomy Seminar (1)
- Any PHY 500 level course

Sustainable Agriculture
- SAG 201 Cultural Perspective on Sustainability (3)
- SAG 386 Plant Production Systems (4)
- SAG 390 Agroecology (3)
- SAG 490 Integration of Sustainable Ag Principles (3)

Statistics
- STA 210 Making Sense of Uncertainty: An Intro to Statistical Reasoning (3) Can fulfill both UK Core and Specialty Support
- STA 281 Probability & Statistics Using Interactive Computer Techniques (3)
- STA 292 Descriptive Statistics (1)
- STA 293 Probability (1)
- STA 294 Sampling and Inference (1)
- STA 295 The Art & Practice of Probability (3)
- STA 296 Statistical Methods and Motivations (3) Can fulfill both UK Core and Specialty Support
- STA 320 Introductory Probability (3)
- STA 321 Basic Statistical Theory I (3)
- STA 322 Stat Method in Nonparam Infer & Survey Sample (4)
- STA 335 Data Analysis for Physicists (1)
- STA 381 Engineering Statistics – A Conceptual Approach (3)
- STA 417G Principles of Operations Research II (3)
- STA 422G Basic Stat Theory II (4)
- STA 515 Linear & Combinatorial Optimization (3)
- STA 524 Probability (3)
- STA 525 Introductory Statistical Inference (3)
- STA 569 Applied Statistical Methods (4)
- STA 570 Basic Statistical Analysis (4)
- STA 580 Biostatistic I (2)

Veterinary Science
- VS 307 Genetics of Horses (3)
- VS 500 Advanced Equine Reproduction (3)
- VS 575 Literature in Veterinary Parasitology (1)

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