

The University of Tennessee at Martin
Bachelor of Science in Agriculture (with a major in General Agriculture)
Animal Science Concentration
Production, Business and Management Option (program 1130)

Overview

The University of Tennessee at Martin's Department of Agriculture, Geosciences, and Natural Resources offers an exceptional hands-on learning opportunity in the area of Animal Science. The program combines basic science and technical courses related to all aspects of livestock production from conception to consumption. Students will also complete courses in the humanities and social sciences as well as business and communications. Through careful selection of elective courses, a student can focus on specific areas of animal production and management including nutrition, genetics, health and well-being, reproduction, and others.

Career Opportunities

Graduates of the production, business and management option have a wide variety of career options to choose from including farm and livestock management, agricultural extension service, livestock procurement, federal meat grading, federal and state livestock and meat inspection, and market news reporting. There are also careers in business-related areas of animal production including animal health sales, livestock feed sales, farm loan representatives, and banking. For students desiring to pursue an advanced degree, this option prepares individuals for graduate studies in animal science, agricultural economics, business administration, food science, or other related disciplines.

Facilities

UT Martin has a 700-acre teaching farm that houses beef cattle, horses, goats and sheep year-round, and swine on an as-needed basis. The primary purposes of the farm are teaching, research, and demonstration. Students have numerous opportunities to work with the animals in classes and laboratories throughout their undergraduate education. Field trips are made to nearby industries and farms to learn their operating procedures. All of these resources are used to provide experiential learning opportunities for our students.

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Course Requirements: BS in Agriculture – Animal Science- Production, Business, and Management (1130)

Fine Arts (3 hours) *Select One*

| | | |
|----------|---------------------------|-------|
| ART 110 | Understanding Visual Arts | ___/3 |
| ARTH 210 | The History of Art | ___/3 |
| ARTH 211 | The History of Art | ___/3 |
| DANC 110 | Understanding Dance | ___/3 |
| MUS 111 | Masterpieces of Music | ___/3 |
| MUS 112 | Music in Our Time | ___/3 |
| MUS 113 | Western Masterpieces | ___/3 |
| MUS 114 | Historical Survey of Jazz | ___/3 |
| MUS 115 | Music for the Masses | ___/3 |
| THEA 110 | Understanding Theatre | ___/3 |
| THEA 111 | Understanding Theatre | ___/3 |

Biological & Physical Systems (16 hours)

| | | |
|----------|---|-------|
| BIOL 130 | Foundations of Biology: Ecology & Diversity | ___/4 |
| BIOL 140 | Foundations of Biology: Cell & Molecular | ___/4 |

Choose one sequence

| | | |
|----------|---|-------|
| CHEM 111 | Intro to Chemistry I: General & Inorganic | ___/4 |
| & 112 | Intro to Chemistry II: Organic & Biochem | ___/4 |
| CHEM 121 | General Chemistry I | ___/4 |
| & 122 | General Chemistry II | ___/4 |

Communications (9 hours)

**Students who place in ENGL 100, will use ENGL 110 instead of ENGL 111 in the ENGL sequence*

| | | |
|----------|---|-------|
| ENGL 111 | English Composition (Must earn a C or better) | ___/3 |
| ENGL 112 | English Composition (Must earn a C or better) | ___/3 |
| COMM 230 | Public Speaking | ___/3 |

Humanities (9 hours) *Select Three*

| | | |
|----------|----------------------------------|-------|
| ENGL 250 | British Literature | ___/3 |
| ENGL 251 | British Literature | ___/3 |
| ENGL 260 | American Literature | ___/3 |
| ENGL 261 | American Literature | ___/3 |
| ENGL 270 | World Literature | ___/3 |
| ENGL 271 | World Literature | ___/3 |
| FREN 250 | France Today | ___/3 |
| GERM 250 | Germany Today | ___/3 |
| HIST 121 | World Civilization I | ___/3 |
| HIST 122 | World Civilization II | ___/3 |
| HIST 201 | History of the U.S. I | ___/3 |
| HIST 202 | History of the U.S. II | ___/3 |
| PHIL 110 | Adventure of Ideas: Historical | ___/3 |
| PHIL 120 | Adventure of Ideas: Contemporary | ___/3 |
| PHIL 130 | Ethics and Race | ___/3 |
| PHIL 160 | Exploring Ethics | ___/3 |
| SPAN 250 | Latin America Today | ___/3 |

Mathematics (6 hours)

| | | |
|----------|-------------------------------------|-------|
| MATH 210 | Elementary Statistics & Probability | ___/3 |
|----------|-------------------------------------|-------|

Select One

| | | |
|----------|---------------------------------------|-------|
| MATH 140 | College Algebra & Elementary Function | ___/3 |
| MATH 160 | Calculus for Business & Life Sciences | ___/3 |
| MATH 185 | Precalculus | ___/5 |
| MATH 251 | Calculus I | ___/3 |

Social Dynamics & Behavioral Science (6 hours) *Select Two*

| | | |
|----------|--------------------------------------|-------|
| AGRI 295 | International Food and Fiber Systems | ___/3 |
| ANSC 270 | Animal Welfare & Ethics | ___/3 |
| ECON 100 | American Enterprise System | ___/3 |
| ECON 201 | Principles of Macroeconomics | ___/3 |
| ECON 202 | Principles of Microeconomics | ___/3 |
| ENGR 100 | Society & Technology | ___/3 |

| | | |
|----------|--|-------|
| GEOG 151 | Intro Regional Geography: NA, Europe, Russia | ___/3 |
| GEOG 152 | Intro Regional Geography: Asia, Africa, LA | ___/3 |
| GEOG 202 | Introduction to Cultural Geography | ___/3 |
| HLTH 111 | Principles & Concepts in Personal Health | ___/3 |
| IDST 201 | Introduction to Women’s Studies | ___/3 |
| NRM 101 | Wildlife, Conservation, & Environmental Issues | ___/3 |
| NRM 250 | Global Perspectives in Natural Resource | ___/3 |
| NUTR 100 | Introductory Nutrition | ___/3 |
| POSC 210 | American Government & Politics | ___/3 |
| POSC 220 | American Politics Institutions & Policy | ___/3 |
| POSC 230 | Introduction to World Politics | ___/3 |
| PSYC 101 | Introduction to Psychology | ___/3 |
| SWRK 220 | Understanding Human Diversity | ___/3 |
| SOC 201 | General Sociology | ___/3 |
| SOC 202 | Social Problems | ___/3 |

Animal Science Core (10 hours)

| | | |
|----------|--|-------|
| ANSC 350 | Animal Nutrition | ___/3 |
| ANSC 371 | Anatomy & Physiology of Domestic Animals | ___/4 |
| ANSC 372 | Applied Animal Reproduction | ___/3 |

Prod, Bus, & Mgt Major Courses (61 hours)

| | | |
|----------|--|-------|
| ANSC 110 | Introduction to Animal Science | ___/3 |
| PLSC 110 | Introductory Plant & Soil Science | ___/3 |
| SOIL 210 | Soil Science | ___/4 |
| AGEC 110 | Introduction to Agricultural Business | ___/3 |
| AGET 110 | Introduction to Agricultural Engineering | ___/3 |
| AGRI 390 | Career Planning in Agriculture | ___/2 |
| ANSC 119 | Introduction to Animal Science Lab | ___/1 |
| ANSC 240 | Live Animal & Carcass Selection and Evaluation | ___/3 |
| ANSC 320 | Farm Animal Health | ___/3 |
| ANSC 351 | Animal Nutrition Lab | ___/1 |
| ANSC 360 | Animal Genetics | ___/3 |
| ANSC 374 | Applied Animal Reproduction Lab | ___/1 |

Animal Science Production Electives (6 hours) *Select Two*

| | | |
|----------|-------------------------------------|-------|
| ANSC 410 | Beef Cow-Calf Production | ___/3 |
| ANSC 413 | Stocker & Feedlot Cattle Production | ___/3 |
| ANSC 420 | Swine & Poultry Science | ___/3 |
| ANSC 430 | Stable Management | ___/3 |
| ANSC 440 | Sheep & Goat Production | ___/3 |
| WBIO 405 | Principles of Aquaculture | ___/3 |

ANSC GEN-ELECT (6 hours)

| | |
|-------|------|
| _____ | ___/ |
| _____ | ___/ |

SCI, AGET, BUS Electives 10 hours (MBIO 251 or UD PLSC, SOIL, MBIO, BIOL, ZOOL, AGET, Ag Business or College of Business Excluding POSC)

| | |
|-------|------|
| _____ | ___/ |
| _____ | ___/ |
| _____ | ___/ |
| _____ | ___/ |

AGNRMELECT (6 hours from any courses in Ag & NRM, Excluding ANSC Courses)

| | |
|-------|------|
| _____ | ___/ |
| _____ | ___/ |

ENGL or COMM ELECT (3 hours) *Select One*

| | | |
|----------|-------------------------------|-------|
| COMM 200 | Introduction to Media Writing | ___/3 |
| ENGL 305 | The Art of the Essay | ___/3 |
| ENGL 310 | Fiction Workshop | ___/3 |
| ENGL 315 | Poetry Workshop | ___/3 |
| ENGL 325 | Technical Communications | ___/3 |

**B.S. in Agriculture
Animal Science – Production, Business, and Management
2017-2018**

| Freshman Fall | |
|-----------------------|-----------|
| General Studies 101 | 2 |
| ENGL 111 | 3 |
| MATH 140 | 3 |
| BIOL 130 | 4 |
| ANSC 110 | 3 |
| ANSC 119 | 1 |
| | |
| Semester Total | 16 |

| Freshman Spring | |
|-------------------------|-----------|
| Fine Arts Elective | 3 |
| ENGL 112 | 3 |
| MATH 210 | 3 |
| BIOL 140 | 4 |
| AGEC, AGET, or PLSC 110 | 3 |
| | |
| Semester Total | 16 |

| Sophomore Fall | |
|-------------------------|-----------|
| CHEM 111 or 121 | 4 |
| Humanities Elective | 3 |
| Social Science Elective | 3 |
| ANSC 240 | 3 |
| AGEC, AGET, or PLSC 110 | 3 |
| | |
| Semester Total | 16 |

| Sophomore Spring | |
|-------------------------|-----------|
| CHEM 112 or 122 | 4 |
| Humanities Elective | 3 |
| AGEC, AGET, or PLSC 110 | 3 |
| Social Science Elective | 3 |
| ANSC 360 | 3 |
| | |
| Semester Total | 16 |

| Junior Fall | |
|-----------------------|-----------|
| SOIL 210 | 4 |
| AGRI 390 | 2 |
| COMM 230 | 3 |
| ANSC 371 | 4 |
| ANSC 320 or 350 | 3 |
| | |
| Semester Total | 16 |

| Junior Spring | |
|-----------------------|-----------|
| ANSC 372 | 3 |
| ANSC 320 or 350 | 3 |
| ANSC Elective | 3 |
| ANSC 374 | 1 |
| Humanities Elective | 3 |
| MBIO 251 | 4 |
| | |
| Semester Total | 17 |

| Senior Fall | |
|--------------------------|-----------|
| UD Elective | 3 |
| ANSC Production Elective | 3 |
| AG/NRM Elective | 3 |
| ANSC 351 | 1 |
| ANSC Elective | 3 |
| | |
| Semester Total | 13 |

| Senior Spring | |
|--------------------------|-----------|
| UD Elective | 3 |
| AG/NRM Elective | 3 |
| English Elective | 3 |
| ANSC Production Elective | 3 |
| | |
| Semester Total | 12 |