**Animal Industry Option - Livestock Specialization**
**Four Year Plan of Study - MA 109**
**(Math ACT Score 21 or higher and/or ALEKS Score 46 or higher)**

**Fall Year 1**

| Course | Hrs. |
|---|---|
| ASC 101 Domestic Animal Biology | 3 |
| CIS or WRD 110 Comp & Comm I | 3 |
| AFE 100 Issues in Ag, Food & Environment | 3 |
| MA 109 College Algebra | 3 |
| UK Core Humanities | 3 |
| **Total** | **15** |

**Spring Year 1**

| Course | Hrs. |
|---|---|
| ASC 102 Introduction to Livestock & Poultry Production[a] | 3 |
| ASC 205 Career Development for ASC | 1 |
| CHE 109 General Chemistry IA[b] | 4 |
| CIS or WRD 111 Comp & Comm II | 3 |
| MA 123 Brief Application of Calculus[c] | 4 |
| **Total** | **15** |

**Fall Year 2**

| Course | Hrs. |
|---|---|
| BIO 148 Introductory Biology I | 3 |
| CHE 110 General Chemistry IB[d] | 4 |
| CHE 111 General Chemistry I Lab | 1 |
| STA 210 Introduction to Statistical Reasoning or STA 296 Statistical Methods & Motivations | 3 |
| UK Core Global Dynamics | 3 |
| Free Elective | 1 |
| **Total** | **15** |

**Spring Year 2**

| Course | Hrs. |
|---|---|
| BIO 152 Principles of Biology II[e] | 3 |
| CHE 107 General Chemistry II[f] | 3 |
| CHE 113 General Chemistry II Lab | 2 |
| WRD 203 Business Writing[a] or WRD 204 Technical Writing | 3 |
| UK Core Arts & Creativity | 3 |
| Free Elective | 1 |
| **Total** | **15** |

**Summer Year 2**

| Course | Hrs. |
|---|---|
| CHE 230 Organic Chemistry I or CHE 236 Survey of Organic Chemistry[a] | 3 |
| **Total** | **3** |

**Fall Year 3**

| Course | Hrs. |
|---|---|
| ASC 300 Meat Science[g] | 4 |
| ASC 325 Animal Physiology | 3 |
| ASC 378 Animal Nutrition[g] | 3 |
| Specialty Support Course[h] | 3 |
| Specialty Support Course[h] | 3 |
| **Total** | **16** |

**Spring Year 3**

| Course | Hrs. |
|---|---|
| ASC 362 Animal Breeding and Genetics | 4 |
| ASC 364 Reproductive Physiology of Farm Animals | 4 |
| UK Core Social Sciences | 3 |
| Specialty Support Course[h] | 3 |
| **Total** | **14** |

**Fall Year 4**

| Course | Hrs. |
|---|---|
| ASC 470 Capstone for Animal Agriculture | 3 |
| ASC Production Course[i] | 3-4 |
| ASC Production Course[i] | 4 |
| Free Elective | 3 |
| Free Elective | 3 |
| **Total** | **16-17** |

**Spring Year 4**

| Course | Hrs. |
|---|---|
| ASC 380 Applied Animal Nutrition[a] | 3 |
| ASC Academic Enrichment Experience[j] | 3 |
| ASC Production Course[i] | 2-3 |
| Specialty Support Course[h] | 3 |
| Free Elective | 3 |
| **Total** | **14-15** |

| Production Courses | Semester |
|---|---|
| ASC 340 Poultry Production | Spring |
| ASC 404G Sheep Science | Fall |
| ASC 406 Beef Cattle Science | Fall |
| ASC 408G Swine Production | Spring |
| ASC 410G Equine Science | Spring |
| ASC 420G Dairy Cattle Science | Fall |

**120 hrs. required for graduation**
**45 hrs. of 300 level or higher required**

[a] Course only offered during spring semesters

[b] B or higher required in MA 109

[c] C or higher required in MA 109

[d] C or higher required in CHE 109

[e] C or higher required in BIO 148

[f] C or higher required in CHE 110

[g] Course only offered during fall semesters

h Specialty support electives are approved 200 level or higher courses

[i] Two of three production courses must be ASC 404G Sheep Science, ASC 406 Beef Cattle Science, or ASC 408G Swine Production

[j] Requirement fulfilled via ASC 333 Scholar Teaching Learning ASC, ASC 395 Special Problems in Animal Sciences, ASC 399 Experiential Learning in ASC, or EAP 599 Study Abroad