



Bachelor of Science in Agriculture, Food and Environmental Sciences

Major: Dairy Production

2018-2019 Sample 4-Year Plan

Total Degree Requirements: 120 credits

Student _____ Student ID# _____ Student Phone # _____

Advisor _____ Minimum GPA _____ Minor/Career Interest(s) _____

Students are not limited to this plan; it is meant to be used as a guide for planning purposes in consultation with your advisor. The sample schedule is one possible path to completing your degree within four years. For official program requirements, please refer to the [Undergraduate Catalog](#).

First Year

Fall

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|--------------------------------|--|--|---------|----------|-------|
| DS 119 | First Year Seminar – Dairy and Food Science | | 2 | F | |
| DS 130-130L | Introduction to Dairy Science and Lab | | 3 | F/S | |
| CHEM 106-106L or CHEM 112-112L | Chemistry Survey and Lab or General Chemistry I and Lab (SGR #6) | p. MATH 101 or higher p. MATH 102 or higher | 4 | | |
| MATH 102 or MATH 115 | College Algebra (SGR #5) or Precalculus (SGR #5) | p. Placement p. MATH 102 | 3 | | |
| SPCM 101 or ENGL 101 | Fundamentals of Speech (SGR #2) or Composition I (SGR #1) | p. Placement | 3 | | |
| Total Credit Hours | | | 15 | | |

Spring

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|---|-------------------------|---------|----------|-------|
| CHEM 108-108L | Organic and Biochemistry and Lab | p. CHEM 106 or CHEM 112 | 5 | | |
| ENGL 101 or SPCM 101 | Composition I (SGR #1) or Fundamentals of Speech (SGR #2) | p. Placement | 3 | | |
| PS 103-103L | Crop Production and Lab | | 3 | | |
| SGR #3 | Social Science/Diversity | | 3 | | |
| SGR #4 | Arts and Humanities/Diversity | | 3 | | |
| Total Credit Hours | | | 17 | | |

Second Year

Fall

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|--------------------------------|---|------------------------|---------|----------|-------|
| AS 219 | Principles of Animal Nutrition | p. AS 101 or DS 130 | 3 | F | |
| BIOL 101-101L or BIOL 151-151L | Biology Survey I and Lab (3 cr) (SGR #6) or General Biology I and Lab (4 cr) (SGR #6) | BIOL 151/L preferred | 3 - 4 | | |
| DS 202 | Dairy Products Judging | | 1 | F | |
| DS 311 | Dairy Cattle Judging | | 2 | F | |
| ECON 201 or ECON 202 | Principles of Microeconomics (SGR #3) or Principles of Macroeconomics (SGR #3) | | 3 | | |
| ENGL 201 | Composition II (SGR #1) | p. ENGL 101 | 3 | | |
| Total Credit Hours | | | 15 - 16 | | |

Spring

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|--------------------------------|---|---|---------|----------|-------|
| AS 319-319L | Livestock Feeds and Feeding and Lab | p. AS 219 | 3 | F/S | |
| BIOL 103-103L or BIOL 153-153L | Biology Survey II and Lab (3cr) or General Biology II and Lab (4cr) | BIOL 153/L preferred p. BIOL 101 p. BIOL 151 | 3 - 4 | | |
| DS 312-312L | Dairy Cattle Breeding and Evaluation and Lab | | 4 | S | |
| MICR 231-231L | General Microbiology and Lab | p. CHEM 106/L or CHEM 112/L | 4 | | |
| Total Credit Hours | | | 14 - 15 | | |



Third Year

Fall

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---|--|--|---------|----------|-------|
| AGEC 271 | Farm and Ranch Management | p. MATH (one course) | 3 | | |
| PHYS 101-101L or PHYS 111-111L or PHYS 211-211L | Survey of Physics and Lab or Introduction to Physics I and Lab or University Physics I and Lab | p. MATH 102 or higher p. MATH 123 or MATH 125 | 4 | | |
| PS 213-213L or PS 313 | Soils and Lab or Forage Crop and Pasture Management | p. CHEM 106/L or CHEM 112/L p. BIOL 101 or BIOL 151 | 3 | | |
| SGR #4 | Arts and Humanities/Diversity | | 3 | | |
| General Elective | Select from any discipline | | 3 | | |
| Total Credit Hours | | | 16 | | |

Spring

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|--|---|---------|----------|-------|
| BIOL 371 or AS 332 | Genetics (3 cr) or Livestock Breeding and Genetics (4 cr) | p. BIOL 101/L or 151/L p. AS 101 or DS 130 and BIOL 103/L or BIOL 153/L | 3 - 4 | F/S | |
| DS 301-301L | Dairy Microbiology and Lab | p. MICR 231/L or MICR 233/L | 4 | S odd | |
| VET 223-223L | Anatomy and Physiology of Domestic Animals and Lab | p. CHEM 108 or CHEM 326 | 4 | S | |
| VET 403 | Animal Diseases and Their Control | Sophomore standing | 3 | S | |
| Total Credit Hours | | | 14 - 15 | | |

Summer

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|--------------|--|---------|----------|-------|
| DS 494 | Internship | Summer after 2 nd or 3 rd year | 3 | SU | |
| Total Credit Hours | | | 3 | | |

Fourth Year

Fall

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|---------------------------------|---|---------|----------|-------|
| AS 333-333L | Livestock Reproduction and Lab | p. VET 223/L | 3 | F | |
| DS 480-480L | Dairy Farm Operations I and Lab | p. AS 219, DS 130/L and ECON 201 or ECON 202 | 4 | F even | |
| DS 490 | Seminar | | 1 | F | |
| General Elective | Select from any discipline | | 3 | | |
| General Elective | Select from any discipline | | 3 | | |
| Total Credit Hours | | | 14 | | |

Spring

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|----------------------------------|---|---------|----------|-------|
| AS/AST 463 | Agricultural Waste Management | p. PS 213/L or PS 313 | 3 | S | |
| DS 413 | Physiology of Lactation | | 3 | S even | |
| DS 481-481L | Dairy Farm Operations II and Lab | p. DS 130, DS 480, and ECON 201 or 202 | 4 | S even | |
| General Elective | Select from any discipline | | 2 | | |
| Total Credit Hours | | | 12 | | |

Comments/Notes

Students from all academic majors can pursue graduation with Fishback Honors College distinction. View the [Honors program requirements](#).

Final General elective course is dependent upon which of the options (either 3 or 4 credits) are taken in relation to the Biology and Genetics courses.