



Bachelor of Science in Agriculture, Food and Environmental Sciences

Major: Dairy Manufacturing

2019-2020 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 |
|-----------------------------------|--|--|---------|----------|-------|
| CHEM 106-106L or CHEM 112-112L | Chemistry Survey and Lab (SGR #6) or General Chemistry I and Lab (SGR #6) | p. MATH placement p. MATH 114 or higher | 4 | | |
| DS 119 | First Year Seminar - Dairy and Food Science | | 2 | F | |
| DS 130-130L | Introduction to Dairy Science and Lab | | 3 | F/S | |
| ENGL 101 or SPCM 101 | Composition I (SGR #1) or Fundamentals of Speech (SGR #2) | p. Placement | 3 | | |
| MATH 114 or MATH 115 | College Algebra Precalculus (SGR #5) | p. Placement p. MATH 114 | 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/L; CHEM 112/L also accepted as pre-req | 5 | | |
| DS 496 | Field Experience | | 3 | | |
| SGR #3 | Social Science/Diversity (SGR #3) | | 3 | | |
| SGR #4 | Arts and Humanities/Diversity (SGR #4) | | 3 | | |
| SPCM 101 or ENGL 101 | Fundamentals of Speech (SGR #2) or Composition I (SGR #1) | | 3 | | |
| Total Credit Hours | | | 17 | | |

Second Year

Fall

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---|--|--|---------|----------|-------|
| 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 | |
| ENGL 201 | Composition II (SGR #1) | p. ENGL 101 | 3 | | |
| FS | Food Science elective | p. FS 251 suggested | 3 | F | |
| 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 114 or higher p. MATH 123 or MATH 125 | 4 | | |
| Total Credit Hours | | | 14 - 15 | | |

Spring

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|-----------------------------------|--|-----------------------------|---------|----------|-------|
| ACCT 210 | Principles of Accounting I | | 3 | | |
| BIOL 103-103L or BIOL 153-153L | Biology Survey II and Lab (3 cr) or General Biology II and Lab (4 cr) | BIOL 153/L Preferred | 3 - 4 | | |
| ECON 201 or ECON 202 | Principles of Microeconomics or Principles of Macroeconomics (SGR #3) | | 3 | | |
| MICR 231-231L | General Microbiology and Lab | p. CHEM 106/L or CHEM 112/L | 4 | | |
| SGR #4 | Arts and Humanities/Diversity (SGR #4) | | 3 | | |
| Total Credit Hours | | | 16 - 17 | | |

Information Subject to Change. This is not a contract.

p. = Course Prerequisite
Semester: F = Fall, S = Spring, SU = Summer



Third Year

Fall

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|--------------------------------------|--|---------|----------|-------|
| DS 321-321L | Dairy Products Processing I and Lab | p. DS 130 and MICR 231/L or MICR 233/L | 5 | F odd | |
| DS 400-400L | Dairy Chemistry and Analysis and Lab | p. DS 130 and CHEM 106/L or CHEM 112/L; CHEM 108 or concurrent | 5 | F | |
| MICR 311-311L | Food Microbiology and Lab | p. MICR 231/L or MICR 233/L | 4 | F | |
| Total Credit Hours | | | 14 | | |

Spring

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|--|---|---------|----------|-------|
| DS 322-322L | Dairy Product Processing II and Lab | p. DS 130 and MICR 231/L or MICR 233/L | 5 | S even | |
| Business Elective | Select from ACCT, BADM, BLAW, ECON, ENTR, DSCI, FIN, HRM, MGMT, MKTG, or STAT prefix | Excludes courses completed as a program requirement | 3 | | |
| Group I course | Ag Elective if FS elective was not from approved Group 1 list; otherwise treat as general elective | | 3 | | |
| General Elective | Select from any discipline | | 3 | | |
| General Elective | Select from any discipline | | 2 | | |
| Total Credit Hours | | | 16 | | |

Summer

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|--|---|---------|----------|-------|
| DS 494 or DS 498 | Internship or Undergraduate Research/Scholarship | 2 nd and/or 3 rd summer | 3 | | |
| Total Credit Hours | | | 3 | | |

Fourth Year

Fall

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|--|------------------------|---------|----------|-------|
| AST 443-443L | Food Processing and Engineering Fundamentals and Lab | | 3 | F | |
| DS 421-421L | Dairy Plant Management and Lab | p. Jr Standing | 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 |
|---------------------------|--|-----------------------------|---------|----------|-------|
| DS 301-301L | Dairy Microbiology and Lab | p. MICR 231/L or MICR 233/L | 4 | S odd | |
| Group 1 course | Ag elective | | 1 – 3 | | |
| General Elective | Select from any discipline | | 3 | | |
| General Elective | Select from any discipline to reach minimum of 120 total credits | | 3 | | |
| Total Credit Hours | | | 11 - 13 | | |

Comments/Notes

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

The exact number of general elective credits is dependent on choice of Biology sequence and choice of Group 1 courses.