### Core Courses - 12 Credits
- FDST 101 Introduction to Food Science (2 cr)
- FDST 132 Practical Experiences in Food Science (1 cr)
- FDST 280 Contemporary Issues (2 cr)
- FDST 403 Food Quality Assurance (3 cr)
- FDST 451 Food Science & Technology Seminar (1 cr)
- FDST 460 Food Product Development Concepts (3 cr)

### Process Technology - 12 Credits
- FDST 363 Heat & Mass Transfer (3 cr)
- FDST 465 Food Engineering Unit Operations (3 cr)
  
  Choose two of the following courses:
  - ANSC 410 Processed Meats (3 cr)
  - FDST 412 Cereal Technology (3 cr)
  - FDST 413 Baking Technology (3 cr)
  - FDST 429 Dairy Products Technology (3 cr)
  - ASCI 310 Fresh Meats or ASCI 410 Processed Meats (3 cr)
  - FDST 420 Fruit and Vegetable Technology (3 cr)
  - FDST 455/455L Microbiology of Fermented Foods + Lab (3 cr)

### Food Chemistry - 10 Credits
- FDST 205 Food Composition and Analysis (3 cr)
- FDST 448 Food Chemistry (3 cr)
- FDST 449 Food Chemistry Lab (1 cr)
- FDST 458 Advanced Food Analysis (3 cr)

### Food Microbiology - 5 Credits
- FDST 405 Food Microbiology (3 cr)
- FDST 406 Food Microbiology Lab (2 cr)

### Nutrition - 3 Credits
  Choose one of the following courses:
  - NUTR 250 Human Nutrition and Metabolism (3 cr)
  - ASCI 421 Advanced Animal Nutrition (3 cr)
  - NUTR 455 Advanced Nutrition (3 cr)

### Food Technology for Companion Animals Requirements - 49-52 Credits
- FDST/ASCI 107 Intro to Companion Animal Food Industry (1 cr)
- FDST 101 Introductory Food Science (2 cr)
  - or ASCI 100 Fundamentals of Animal Biology & Industry (4 cr)

### Core Courses - 7 Credits
- FDST 403 Food Quality Assurance (3 cr)
- FDST 451 Food Science & Technology Seminar (1 cr)
  - or ASCI 491 Animal Science Seminar (1 cr)
- FDST 460 Concepts of Food Product Development 1 (3 cr)
  - or ASCI 486 Animal Biological Systems 1 (3 cr)

### Process Technology - 11-12 Credits
- FDST 363 Heat & Mass Transfer (3 cr)
- FDST 465 Food Engineering Unit Operations (3 cr)
- ASCI 210 Animal Products (3 cr)
- FDST 412 Cereal Technology (3 cr)
  - or AGRO 437 Animal, Food and Industrial Uses of Grain (2 cr)

### Food Chemistry - 10 Credits
- FDST 205 Food Composition and Analysis (3 cr)
- FDST 448 Food Chemistry (3 cr)
- FDST 449 Food Chemistry Lab (1 cr)
- FDST 458 Advanced Food Analysis (3 cr)

### Food Microbiology - 5 Credits
- FDST 405 Food Microbiology (3 cr)
- FDST 406 Food Microbiology Lab (2 cr)

### Animal Management and Nutrition - 13 Credits
- ASCI 240 Anatomy & Physiology of Domestic Animals (4 cr)
- ASCI 251 Introduction to Companion Animals (3 cr)
- ASCI 320 Animal Nutrition and Feeding (3 cr)
- ASCI 321 Companion Animal Nutrition (3 cr)

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### College Integrative Course - 3 Credits
- SCIL 101 Science & Decision Making (3 cr)

### Natural Sciences - 32-33 Credits
- BIOC 401/401L Elements of Biochemistry + Lab (4 cr)
  - or BIOC 431/433 Biochemistry + Lab (5 cr)
- LIFE 120/120L Fundamentals of Biology I + Lab (4 cr)
  - or LIFE 121/121L Fundamentals of Biology II + Lab (4 cr)
- BIOS 312 Fundamentals of Microbiology (3 cr)
- CHEM 109 General Chemistry I (4 cr)
- CHEM 110 General Chemistry II (4 cr)
- CHEM 251 Organic Chemistry (3 cr)
- CHEM 253 Organic Chemistry Lab (1 cr)
- MYSM 109/109L Physical Principles in Agriculture + Lab (5 cr)
  - or PHYS 151/153 Elements of Physics + Lab (5 cr)

### Mathematics and Analytical Skills - 8-10 Credits
- STAT 218 Intro to Statistics (3 cr)
  - or ECON 215 Statistics (3 cr)
- MATH 102 Trigonometry (2 cr)
- MATH 104 Calculus for Managerial and Social Sciences (3 cr)
  - or MATH 106 Analytical Geometry and Calculus (5 cr)

### Communications - 6 Credits
- ACE Outcome 1 (3 cr)
  - Select from: ENGL 150, 151, 254; JGEN 120, 200, or 300
- ACE Outcome 2 (3 cr)
  - Select from: ALEC 102; COMM 101, 209, 210, or 286; NRES 301

### Economics, Humanities and Social Sciences - 12 Credits
- ECON 211 or ECON 212 or AEcn 141 (3 cr)
- ACE Courses 5,7,9 (9 cr)

### Technical Electives - 10-11 Credits

### Free Electives - 3-7 Credits

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