

| Bachelo   | r of Science                   |         |                          |  |
|-----------|--------------------------------|---------|--------------------------|--|
| Major: A  | Animal Science                 |         |                          |  |
| Specializ | zation: Food Animal Health     |         |                          |  |
| 2024-202  | 25 Sample 4-Year Plan          |         |                          |  |
| Total Deg | gree Requirements: 120 credits |         |                          |  |
| Student   | Studen                         | nt ID#  | Student Phone #          |  |
| Advisor   | Minim                          | num 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 <u>Undergraduate Catalog</u>.

Admission Requirements: Students will be required to complete one year of courses at SDSU and be successfully admitted to the SDSU VFAST-track program to declare this specialization.

## FIRST YEAR

| Fall                 |   |  |         |          |       |
|----------------------|---|--|---------|----------|-------|
| Prefix + Number      | Course Title  | Prerequisites/Comments                             | Credits | Semester | Grade |
| AS 119               | Opportunities in Animal and Veterinary Science              | c. AS 120 or VET 120                               | 1       | F        |       |
| AS 101-101L          | Introduction to Animal Science & Lab                        | Fall semester for First-Year Animal Science majors | 3,1     | F/S      |       |
| AS 120 or<br>VET 120 | Survey of Animal Science or<br>Intro to Veterinary Medicine | c. AS 119  | 1       | F        |       |
| BIOL 151-151L        | General Biology I & Lab (SGR #6)                            |  | 3,1     | F/S(I)   |       |
| CHEM 112-112L        | General Chemistry I & Lab                                   | p. MATH 114 or higher placement                    | 3,1     | F/S      |       |
| SGR #2               | Oral Communication (SGR #2)                                 |  | 3       |          |       |
|                      |   | Total Credit Hours                                 | 17      |          |       |

| Spring   |   |  |         |          |       |
|--|---|--|---------|----------|-------|
| Prefix + Number  | Course Title  | Prerequisites/Comments   | Credits | Semester | Grade |
| BIOL 153-153L  | General Biology II & Lab (SGR #6)   |  | 3,1     | F(I)/S   |       |
| CHEM 114-114L  | General Chemistry II & Lab  | p. CHEM 112/L & MATH 114 or higher   | 3,1     | F/S      |       |
| MATH 114 or<br>MATH 115 or<br>MATH 121-121L or<br>MATH 123 | College Algebra (3 cr) (SGR #5) or<br>Precalculus (5 cr) (SGR #5) or<br>Survey of Calculus & Lab (5 cr) (SGR #5) or<br>Calculus I (4 cr) (SGR #5) | <ul> <li>p. MATH 101, 103 or placement</li> <li>p. MATH 114 or placement</li> <li>p. MATH 114, 115, 120 or placement</li> <li>p. MATH 115, 120 or placement</li> </ul> | 3       |          |       |
| SGR #1   | Written Communication (SGR #1)  | p. Placement   | 3       |          |       |
| SGR #4   | Arts and Humanities (SGR #4)  |  | 3       |          |       |
|  |   | Total Credit Hours   | 17      |          | i     |

# **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        |       |
| CHEM 326-326L   | Organic Chemistry I & Lab             | p. CHEM 114            | 3,1     | F/S      |       |
| ECON 201        | Principles of Microeconomics (SGR #3) |                        | 3       | F/S/SU   |       |
| SGR #1          | Written Communication (SGR #1)        | p. ENGL 101            | 3       |          |       |
| SGR #4          | Arts and Humanities (SGR #4)          |                        | 3       |          |       |
|                 |                                       | Total Credit Hours     | 16      |          |       |

Spring Prefix + Nu

| Prefix + Number | Course Title                                     | Prerequisites/Comments                     | Credits | Semester | Grade |
|-----------------|--|--|---------|----------|-------|
| AS 319-319L     | Livestock Feeds and Feeding & Lab                | p. AS 219                                  | 2,1     | F/S      |       |
| AS 332          | Livestock Breeding and Genetics                  | p. AS 101 or DS 130 and<br>BIOL 101 or 151 | 4       | F/S      |       |
| CHEM 328-328L   | Organic Chemistry II & Lab                       | p. CHEM 326                                | 3,1     | F/S      |       |
| SGR #3          | Social Sciences (SGR #3)                         |  | 3       |          |       |
| VET 223-223L    | Anatomy and Physiology of Domestic Animals & Lab | p. CHEM 108or CHEM 326                     | 3,1     | S        |       |
|                 |  | Total Credit Hours                         | 18      |          |       |

Information Subject to Change. This is not a contract.



# **THIRD YEAR**

# Fall

| Prefix + Number     | Course Title  | Prerequisites/Comments           | Credits | Semester | Grade |
|---------------------|---|----------------------------------|---------|----------|-------|
| AS 241-241L         | Introduction to Meat Science & Lab                  |                                  | 2,1     | F/S      |       |
| AS 333-333L         | Livestock Reproduction & Lab                        | p. VET 223                       | 2,1     | F        |       |
| AS Capstone Course  | Select from:  |                                  |         |          |       |
|                     | AS 445-445L Value-Added Meat Products & Lab         | p. AS 241/L                      | 2,1     | F        |       |
| *One course must be | AS 450 Meat Product Safety and HACCP                | p. AS 241/L                      | 3       | F even   |       |
| AS 474/L, 475/L,    | AS 474-474L Cow/Calf Management & Lab               | p. AS 319/L, AS 332 and AS 333/L | 2,1     | F/S      |       |
| 476/L, 477/L, or    | AS 475-475L Feedlot Operations and Management & Lab | p. AS 285/L, AS 319/L            | 2,1     | F        |       |
| 478/L               | AS 476-476L Horse Production & Lab                  | p. AS 319/L, AS 332 and AS 333/L | 2,1     | S        |       |
|                     | AS 477-477L Sheep and Wool Production & Lab         | p. AS 319/L, AS 332 and AS 333/L | 2,1     | F        |       |
|                     | AS 478-478L Swine Production & Lab                  | p. AS 319/L, AS 332 and AS 333/L | 2,1     | S        |       |
| CHEM 464            | Biochemistry I                                      | p. CHEM 328                      | 3       | F        |       |
| PHYS 111-111L       | Introduction to Physics I & Lab                     | p. MATH 114 or higher            | 3,1     | F        |       |
|                     |   | Total Credit Hours               | 16      |          |       |

#### Spring

| Prefix + Number    | Course Title  | Prerequisites/Comments              | Credits | Semester | Grade |
|--------------------|---|-------------------------------------|---------|----------|-------|
| AS 389             | Current Issues in Animal Science                    |                                     | 3       | F/S/SU   |       |
| AS Capstone Course | Select from:  |                                     |         |          |       |
| -                  | AS 445-445L Value-Added Meat Products & Lab         | p. AS 241/L                         | 2,1     | F        |       |
|                    | AS 450 Meat Product Safety and HACCP                | p. AS 241/L                         | 3       | F even   |       |
|                    | AS 474-474L Cow/Calf Management & Lab               | p. AS 319/L, AS 332 and AS 333/L    | 2,1     | F/S      |       |
|                    | AS 475-475L Feedlot Operations and Management & Lab | p. AS 285/L, AS 319/L               | 2,1     | F        |       |
|                    | AS 476-476L Horse Production & Lab                  | p. AS 319/L, AS 332 and AS 333/L    | 2,1     | S        |       |
|                    | AS 477-477L Sheep and Wool Production & Lab         | p. AS 319/L, AS 332 and AS 333/L    | 2,1     | F        |       |
|                    | AS 478-478L Swine Production & Lab                  | p. AS 319/L, AS 332 and AS 333/L    | 2,1     | S        |       |
| MICR 231-231L or   | General Microbiology & Lab or                       | p. CHEM 106 or CHEM 112             | 3,1     | F/S      |       |
| MICR 233-233L      | Introductory Microbiology & Lab                     | p. BIOL 151 and CHEM 106, 108, 112, |         | F/S      |       |
|                    |   | or 114                              |         |          |       |
| PHYS 113-113L      | Introduction to Physics II & Lab                    | p. PHYS 111                         | 3,1     | S        |       |
| STAT 281           | Introduction to Statistics or                       | p. MATH 114 or higher               | 3       | F/S/SU   |       |
|                    |   | Total Credit Hours                  | 17      |          |       |

#### FOURTH YEAR

| Fall            |  |                        |         |          |       |
|-----------------|--|------------------------|---------|----------|-------|
| Prefix + Number | Course Title                           | Prerequisites/Comments | Credits | Semester | Grade |
| VET 602         | Integrated Biochemistry and Physiology | *                      | 7       | F        |       |
| VET 604         | Clinical Skills I                      | *                      | 1       | F        |       |
| VET 606         | Critical Scientific Reading            | *                      | 1       | F        |       |
| VET 627         | Preventative Medicine                  | *                      | 4       | F        |       |
|                 |  | Total Credit Hours     | 13      |          |       |
| Spring          |  |                        |         |          |       |
| Prefix + Number | Course Title                           | Prerequisites/Comments | Credits | Semester | Grade |
| VET 626         | Agents of Disease I                    | *                      | 4       | S        |       |

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## COMMENTS/NOTES

**VET 625** 

\* The 19 credits listed for the fourth year are part of the Professional Program for Veterinary Medicine. Upon successful completion of these courses, the credits will be applied to the undergraduate degree in Animal Science (BS) - Food Animal Health Specialization. The credit hours listed here are only a portion of the credits a student will complete in the first year of the Professional Program for Veterinary Medicine.

Students from all academic majors can pursue graduation with Fishback Honors College distinction. View the Honors program requirements.

Basic Pathology

**Total Credit Hours** 

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