

# BACHELOR OF SCIENCE, MAJOR IN ANIMAL SCIENCE, PRE-VETERINARY MEDICINE

| Code  | Title                                       | Hours |
|---|---|-------|
| <b>Bachelor of Science, Major in Animal Science, Pre-Veterinary Medicine</b>  |   |       |
| Core Curriculum ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/</a> ) |   |       |
| Component Area I (Communication)  |   | 6     |
| Component Area II (Mathematics)   |   | 3     |
| Component Area III (Life and Physical Science)  |   | 8     |
| Component Area IV (Language, Philosophy, and Culture)   |   | 3     |
| Component Area V (Creative Arts)  |   | 3     |
| Component Area VI (U.S. History)  |   | 6     |
| Component Area VII (Political Science/Government)   |   | 6     |
| Component Area VIII (Social and Behavioral Sciences)  |   | 3     |
| Component Area IX (Component Area Option)   |   | 4     |
| <b>Degree Specific Requirements</b>   |   |       |
| ANSC 2360   | Animals and Society <sup>1</sup>            | 3     |
| COMS 2382   | Comm. for Bus. & Professions <sup>2</sup>   | 3     |
| ENGL 3330   | Intro to Technical Writing                  | 3     |
| or ACOM 3360  | Communication Skills for Agriculturists     |       |
| MATH 1316   | Plane Trigonometry <sup>3</sup>             | 3     |
| STAT 3379   | Statistical Methods in Practice             | 3     |
| UNIV 1301   | Intro To Collegiate Studies                 | 3     |
| or ANSC 2330  | Companion Animal Science                    |       |
| <b>Major Core</b>   |   |       |
| AGRI 4120   | Professional Career Skills                  | 1     |
| Select one from the following:  |   | 3     |
| AGRI 4350   | Agricultural Biosecurity                    |       |
| ANSC 4398   | Animal Diseases & Public Health             |       |
| ANSC 1319   | Animal Science                              | 4     |
| & ANSC 1119   | and Animal Science Laboratory               |       |
| ANSC 3363   | Anatomy & Physiology of the Domestic Animal | 3     |
| ANSC 3373   | Animal Nutrition                            | 3     |
| ANSC 3376   | Meat Science                                | 3     |
| ANSC 4389   | Animal Reproduction                         | 3     |
| ANSC 4394   | Animal Feeds And Feeding                    | 3     |
| ANSC 4395   | Animal Breeding & Genetics                  | 3     |
| PLSC 4370   | Forage Crops & Pasture Mgmt                 | 3     |
| or PLSC 4383  | Range Management                            |       |
| <b>Minor</b>  |   |       |
| BIOL 1411   | General Botany <sup>4</sup>                 | 4     |
| BIOL 1413   | General Zoology <sup>4</sup>                | 4     |
| BIOL 2440   | Introductory Cell Biology                   | 4     |
| BIOL 3450   | Introductory Genetics                       | 4     |
| BIOL 3470   | General Microbiology                        | 4     |
| CHEM 1411   | General Chemistry I <sup>4</sup>            | 4     |
| CHEM 1412   | General Chemistry II <sup>4</sup>           | 4     |
| CHEM 2323   | Organic Chemistry I: Lecture                | 4     |
| & CHEM 2123   | and Organic Chemistry I Lab                 |       |
| CHEM 2325   | Organic Chemistry II: Lecture               | 4     |
| & CHEM 2125   | and Organic Chemistry II: Lab               |       |

|                          |  |     |
|--------------------------|--|-----|
| CHEM 3438                | Biochemistry I   | 4   |
| PHYS 1301<br>& PHYS 1101 | General Phy-Mechanics & Heat<br>and General Physics Laboratory I   | 4   |
| PHYS 1302<br>& PHYS 1102 | Gen Phy-Snd,Lght, Elec, & Mag<br>and General Physics Laboratory II | 4   |
| Total Hours              |  | 120 |

<sup>1</sup> ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

<sup>2</sup> COMS 2382 satisfies the Core Curriculum requirement for Component Area IX and degree specific requirement.

<sup>3</sup> MATH 1316 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific Requirement.

<sup>4</sup> BIOL 1411, BIOL 1413, CHEM 1411, and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the minor requirement.

### First Year

| Fall                     | Hours | Spring  | Hours |
|--------------------------|-------|---|-------|
| ANSC 1319<br>& ANSC 1119 |       | 4 Component Area IV ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiv">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiv</a> ) | 3     |
| BIOL 1411 <sup>1</sup>   |       | 4 BIOL 1413   | 4     |
| CHEM 1411 <sup>1</sup>   |       | 4 ENGL 1301 <sup>3</sup>  | 3     |
| MATH 1316 <sup>2</sup>   |       | 3 CHEM 1412   | 4     |
|                          |       | UNIV 1301 or ANSC 2330  | 3     |
|                          | 15    |   | 17    |

### Second Year

| Fall                     | Hours | Spring                     | Hours |
|--------------------------|-------|----------------------------|-------|
| ANSC 3363                |       | 3 ANSC 2360 <sup>5</sup>   | 3     |
| BIOL 2440                |       | 4 ANSC 3373                | 3     |
| CHEM 2323<br>& CHEM 2123 |       | 4 CHEM 2325<br>& CHEM 2125 | 4     |
| ENGL 1302 <sup>3</sup>   |       | 3 COMS 2382 <sup>6</sup>   | 3     |
| HIST 1301 <sup>4</sup>   |       | 3 HIST 1302 <sup>4</sup>   | 3     |
|                          | 17    |                            | 16    |

### Third Year

| Fall                     | Hours | Spring                     | Hours |
|--------------------------|-------|----------------------------|-------|
| ANSC 3376                |       | 3 ANSC 4389                | 3     |
| BIOL 3450                |       | 4 BIOL 3470                | 4     |
| PHYS 1301<br>& PHYS 1101 |       | 4 PHYS 1302<br>& PHYS 1102 | 4     |
| POLS 2305 <sup>7</sup>   |       | 3 POLS 2306 <sup>7</sup>   | 3     |
|                          | 14    |                            | 14    |

### Fourth Year

| Fall  | Hours | Spring                   | Hours |
|---|-------|--------------------------|-------|
| Component Area IX ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix</a> ) |       | 1 ANSC 4395              | 3     |
| Component Area V ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav</a> )    |       | 3 ANSC 4398 or AGRI 4350 | 3     |
| AGRI 4120   |       | 1 CHEM 3438              | 4     |
| ANSC 4394   |       | 3 PLSC 4370 or 4383      | 3     |
| ENGL 3330 or ACOM 3360  |       | 3                        |       |

|           |    |    |
|-----------|----|----|
| STAT 3379 | 3  |    |
|           | 14 | 13 |

Total Hours: 120

- 1 Satisfies Core Curricular requirement for Component Area III (Life and Physical Science).
- 2 Satisfies Core Curricular requirement for Component Area II (Mathematics).
- 3 Satisfies Core Curricular requirement for Component Area I (Communications).
- 4 Satisfies Core Curricular requirement for Component Area VI (U.S. History).
- 5 ANSC 2360 (<http://catalog.shsu.edu/archives/2020-2021/search/?P=ANSC%202360>) satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- 6 Satisfies Core Curricular requirement for Component Area IX (Component Area Option).
- 7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Animal Science, Pre-Veterinary Medicine is designed to provide graduates with the following marketable skills:

- Ability to make livestock management decisions based on scientific, economic, and other applicable information.
- Knowledgeable of each segment of the food animal and meat industry and make critical marketing decisions in each.
- Understand nutrition as it applies to animal performance and be able to develop balanced rations to meet physiological and production needs.
- Able to develop presentations and effectively communicate factual information, logically and concisely, in both oral and written form.
- Understand anatomy, physiology, and functions of the major organs and systems of livestock.