



**JOMO KENYATTA UNIVERSITY**

**OF**

**AGRICULTURE AND TECHNOLOGY**

**P. O. BOX 62000-00200, NAIROBI, TEL: (067) 52711**

**DEPARTMENT OF ANIMAL SCIENCE**

**[animalsciences@jkuat.ac.ke](mailto:animalsciences@jkuat.ac.ke)**

**BACHELOR OF SCIENCE IN ANIMAL HEALTH, PRODUCTION AND PROCESSING**

**CAREER OPPORTUNITIES**

Graduates will have numerous and varied working opportunities. The available careers include and not limited to: animal health, biotechnology, biomedical and pharmaceutical industries, managers in food processing, veterinary products, animal breeding and livestock marketing, environmental management, wildlife institutions, feed manufacturing companies, abattoirs, teaching and research, and processing of livestock products.

**COURSE STRUCTURE**

**FIRST YEAR**

| <b>S/No</b> | <b>Unit Code</b> | <b>Unit Title</b>  |
|-------------|------------------|--|
| 1           | AAP 2101         | Introduction to Animal Health, Production and Processing |
| 2           | AAP 2102         | Gross Anatomy and Embryology-I                           |
| 3           | AAP 2104         | Histology and Cell Biology                               |
| 4           | AAP 2110         | Botany and Zoology for Animal Sciences                   |
| 5           | AAP 2105         | Animal Physiology –I                                     |
| 6           | AAP 2107         | Biochemistry –I  |
| 7           | SMA 2104         | Mathematics for Science                                  |
| 8           | SZL 2111         | HIV & AIDS   |
| 9           | HRD 2101         | Communication skills                                     |
| 10          | AFS 2210         | Fundamentals of Food Chemistry                           |
| 11          | AAP 2111         | Farm Structures and Machinery                            |
| 12          | AAP 2103         | Gross Anatomy and Embryology-II                          |
| 13          | AAP 2106         | Animal Physiology- II                                    |
| 14          | AAP 2108         | Biochemistry –II   |
| 15          | AAP 2112         | General Genetics   |
| 16          | HRD 2103         | General Economics  |
| 17          | SPH 2162         | Physics  |
| 18          | HRD 2102         | Development Studies and Social Ethics                    |

**SECOND YEAR**

| <b>S/No.</b> | <b>Unit Code</b> | <b>Unit Title</b>                          |
|--------------|------------------|--|
| 1            | AAP 2214         | Bacteriology                               |
| 2            | AAP 2201         | Pathology I                                |
| 3            | AAP 2211         | Pasture, Forage Production and Management  |
| 4            | AAP 2208         | Design and Analysis of Animal Experiments  |
| 5            | AAP 2206         | Immunology                                 |
| 6            | AAP 2204         | Helminthology                              |
| 7            | AAP 2209         | Quantitative Genetics and Animal Breeding  |
| 8            | AAP 2210         | Nutrition and Feeding of Non-Ruminants     |
| 9            | AAP 2217         | Principles of Food Microbiology            |
| 10           | AAP 2203         | Virology and Mycology                      |
| 11           | AAP 2202         | Pathology II                               |
| 12           | AAP 2212         | Nutrition and Feeding of Ruminants         |
| 13           | AAP 2205         | Protozoology and Entomology                |
| 14           | AAP 2213         | Rangeland Management                       |
| 15           | AAP 2216         | Animal Product Processing and Preservation |
| 16           | AAP 2207         | Bacterial and Fungal Diseases I            |
| 17           | AAP 2215         | Herd Health and Internal Attachment        |

**THIRD YEAR**

|    | <b>Unit Code</b> | <b>Unit Title</b>                         |
|----|------------------|---|
| 1  | AAP 2307         | Ecology and Environmental Management      |
| 2  | AAP 2308         | Research Methodology                      |
| 3  | AAP 2309         | Poultry and Pig Production                |
| 4  | AAP 2310         | Beef Production                           |
| 5  | AAP 2301         | Bacterial and Fungal Diseases II          |
| 6  | AAP 2302         | Parasitic, Viral and Rickettsial Diseases |
| 7  | AAP 2311         | Aquaculture                               |
| 8  | AAP 2306         | General Pharmacology and Pharmacognosy    |
| 9  | AAP 2304         | Clinical Pathology                        |
| 10 | AAP 2313         | Research Project 1                        |
| 11 | AAP 2303         | Reproductive Health and Management        |
| 12 | AAP 2305         | Public Health and Epidemiology            |
| 13 | AAP 2315         | Animal Health Applied Skills              |
| 14 | AAP 2312         | Dairy Production                          |
| 15 | AFS 2310         | Foundation in Dairy Science               |
| 16 | AFS 2305         | Meat Technology                           |
| 17 | AAP 2314         | Field (Industrial) Attachment             |

**FOURTH YEAR**

|    | <b>Unit Code</b> | <b>Unit Title</b>                             |
|----|------------------|---|
| 1  | AFS 2403         | Dairy Technology – II                         |
| 2  | AAP 2413         | Sociology and Rural Development               |
| 3  | AAP 2411         | Agribusiness Management                       |
| 4  | AAP 2402         | Zoonoses and One Health Concept               |
| 5  | AAP 2410         | Processing of Aquatic and Poultry Products    |
| 6  | AAP 2405         | Sheep and Goats Production                    |
| 7  | HRD 2109         | Agricultural Marketing                        |
| 8  | AAP 2401         | Clinical Pharmacology and Toxicology          |
| 9  | AAP 2404         | Animal Welfare, Ethics and Law                |
| 10 | AAP 2407         | Animal Feed Technology                        |
| 11 | AAP 2408         | Processing of Livestock By-products           |
| 12 | AFS 2409         | Food Quality Assurance and Sensory Evaluation |
| 13 | AAP 2414         | Field Training                                |
| 14 | AAP 2409         | Agricultural Extension                        |
| 15 | AAP 2406         | Emerging Livestock Production                 |
| 16 | AAP 2412         | Research Project – II                         |
| 17 | HRD 2401         | Entrepreneurship                              |