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| ***Code*** | ***Title*** | ***Credits*** | ***Option*** |
| First Semester |
| \*AS 5101 | Introduction to Aquaculture and Fisheries | 3 | Prerequisite |
| \*AS 5102 | Comparative Anatomy and Physiology of Farm Animals | 3 | Prerequisite |
| \*AS 5103 | Introduction to Animal Production | 2 | Prerequisite |
| \*AS 5104 | Principles of Animal Nutrition | 2 | Prerequisite |
| AS 5120  | Endocrinology of Farm Animals | 2 | Compulsory |
| AS 5121  | Monogastric Nutrition | 3 | Compulsory |
| AS 5126  | Quantitative and Molecular Genetics of Farm Animals | 2 | Compulsory |
| AS 5127  | Ruminant Nutrition | 3 | Compulsory |
| AS 5198  | Directed Study | 2 | Compulsory |
| AS 5199  | Seminar | 1 | Compulsory |
| AS 5106  | Aquaculture Based Farming Systems | 2 | Elective |
| AS 5109  | Dairy Chemistry | 2 | Elective |
| AS 5114  | Integrated Livestock Systems | 3 | Elective |
| AS 5115  | Laboratory Techniques in Animal Nutrition | 2 | Elective |
| AS 5117  | Layer and Parent Stock Management | 3 | Elective |
| AS 5119  | Meat Science | 2 | Elective |
| AS 5122  | Physiology of Lactation | 2 | Elective |
| AS 5124  | Procuring, Processing and Marketing of Fluid Milk | 2 | Elective |
| AS 5125  | Processing of Dairy Products | 2 | Elective |
| AS 5128  | Reproductive Physiology of Farm Animals | 3 | Elective |
| AS 5129  | Selection Index and Mixed Model Methodology | 3 | Elective |

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| AS 5136 | Introduction to Molecular Biology in Animal Science  | 3 | Elective |
| AS 5151  | Biochemical Genetics and Cytogenetics | 2 | Elective |
| AS 5152  | Livestock Bio-diversity and Conservation | 2 | Elective |
| AS 5197  | Proposal Formulation and Scientific Writing | 2 | Elective |
| EC 5156 | Livestock Economics and Marketing | 2 | Elective |
| Second Semester |
| AS 5213  | Livestock Breeding | 3 | Compulsory |
| AS 5218  | Non-ruminant Animal Production | 3 | Compulsory |
| AS 5220  | Ruminant Livestock Production | 3 | Compulsory |
| AS 5201  | Advances in Forage Production and Utilization | 2 | Elective |
| AS 5202  | Animal Biotechnology | 3 | Elective |
| AS 5203  | Animal-Environment Interactions | 2 | Elective |
| AS 5204  | Aquatic Resources Management | 2 | Elective |
| AS 5206  | Broiler Production | 2 | Elective |
| AS 5214  | Livestock Health and Hygiene | 2 | Elective |
| AS 5222  | Wildlife Environment | 3 | Elective |
| AS 5251  | Advances in Equine Nutrition and Feeding | 2 | Elective |
| AS 5252  | Animal Quarantine, Welfare and Legislation | 1 | Elective |
| AS 5253  | Animal Waste Handling and Management | 2 | Elective |
| AS 5258 | Animal Food Safety | 2 | Elective |
| AS 5263 | Global Warming and Animal Production | 2 | Elective |
| AS 5264 | Cell Biology in Animal Science | 2 | Elective |
| AS 5297  | Field Visits - Animal Science | 1 | Elective |
| \*ST 5254 | Animal Experimentation | 2 | Elective |
| EX 5214 | Extension for Livestock Production | 2 | Electie |