

M.Sc. in Animal Science

List of Courses:

| <i>Code</i> | <i>Title</i> | <i>Credits</i> | <i>Option</i> |
|------------------------|---|----------------|---------------|
| 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 |
| 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 | Elective |