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| ***Code*** | ***Title*** | ***Credits*** | ***Option*** |
| First Semester |
| \*AS 5101 | Introduction to Aquaculture and Fisheries | 3 | Prerequisite |
| AS 5105 | Anatomy and Physiology of Fish | 2 | Compulsory |
| AS 5113 | Fish Systematics and Morphometrics | 2 | Compulsory |
| AS 5116 | Laboratory Techniques in Fisheries and Water Quality | 2 | Compulsory |
| AS 5198 | Directed Study | 2 | Compulsory |
| AS 5199 | Seminar | 1 | Compulsory |
| AS 5106 | Aquaculture Based Farming Systems | 2 | Elective |
| AS 5110 | Health Management of Fish | 2 | Elective |
| AS 5118 | Mariculture | 2 | Elective |
| AS 5126 | Quantitative and Molecular Genetics of Farm Animals | 2 | Elective |
| AS 5129 | Selection Index and Mixed Model Methodology | 3 | Elective |
| AS 5130 | Shrimp Production | 3 | Elective |
| AS 5132 | Aquatic Microbiology | 1 | Elective |
| AS 5133 | Fish Biotechnology | 1 | Elective |
| AS 5151 | Biochemical Genetics and Cytogenetics  | 2 | Elective |
| AS 5155 | Fisheries Management | 3 | Elective |
| AS 5197 | Proposal Formulation and Scientific Writing  | 2 | Elective |

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| Second Semester |
| AS 5204 | Aquatic Resources Management  | 2 | Compulsory |
| AS 5210 | Fish Population Dynamics | 2 | Compulsory |
| AS 5211 | Genetics and Breeding of Fish  | 2 | Compulsory |
| AS 5257 | Fish Seed Production and Larval Rearing | 3 | Compulsory |
| AS 5209 | Fish Feeds and Nutrition | 3 | Elective |
| AS 5215 | Marine Fisheries Management | 2 | Elective |
| AS 5217 | Microbiology of Dairy, Meat, Fish and Egg Products | 2 | Elective |
| AS 5219 | Ornamental Fisheries Management | 3 | Elective |
| AS 5221 | Shrimp and Fish Processing | 2 | Elective |
| AS 5252 | Animal Quarantine, Welfare and Legislation  | 1 | Elective |
| AS 5253 | Animal Waste Handling and Management | 2 | Elective |
| AS 5255 | Fish Farm Designing, Construction and Management  | 2 | Elective |
| AS 5261 | Coast Conservation and Management | 1 | Elective |
| AS 5262 | Marine Environment Pollution Prevention | 1 | Elective |
| \*ST 5254  | Animal Experimentation | 2 | Elective |