

## APPROVED STUDY PROGRAM – Department of Animal Science (2025-2026)

| Course Code                    | Course Title                                 | Hours        | ECTS      | Dept |
|--------------------------------|----------------------------------------------|--------------|-----------|------|
| <b>1<sup>st</sup> Semester</b> |                                              |              |           |      |
| 209                            | Principles of General & Inorganic Chemistry  | 5 (3T + 2L)  | <b>5</b>  | ANSC |
| 562                            | Physics                                      | 5 (3T + 2L)  | <b>5</b>  | BIOT |
| 380                            | Genetics                                     | 5 (3T + 2L)  | <b>5</b>  | BIOT |
| 3695                           | Agricultural Zoology – Entomology            | 5 (3T + 2L)  | <b>5</b>  | CRSC |
| 3635                           | Principles of Cellular and Molecular Biology | 6 (3T + 3L)  | <b>5</b>  | ANSC |
| 3675                           | Principles of Animal Production              | 6 (3T + 3L)  | <b>5</b>  | ANSC |
| 44                             | English I                                    | 2 T          | -         |      |
|                                |                                              | <b>ECTS=</b> | <b>30</b> |      |

|                                |                                 |              |           |      |
|--------------------------------|---------------------------------|--------------|-----------|------|
| <b>2<sup>nd</sup> Semester</b> |                                 |              |           |      |
| 3640                           | Principles of Organic Chemistry | 6 (4T + 2L)  | <b>6</b>  | ANSC |
| 3655                           | Agriculture                     | 4 (2T + 2L)  | <b>5</b>  | CRSC |
| 1500                           | Apiculture – Sericulture        | 5 (3T + 2L)  | <b>5</b>  | CRSC |
| 3485                           | Principles of Economics Theory  | 4T           | <b>4</b>  | AERD |
| 3330                           | Introduction to Informatics     | 5 (2T + 3L)  | <b>5</b>  | AERD |
| 3685                           | Botany                          | 5 (3T + 2L)  | <b>5</b>  | CRSC |
| 45                             | English II                      | 2T           | -         |      |
|                                |                                 | <b>ECTS=</b> | <b>30</b> |      |

|                                |                                                       |              |           |      |
|--------------------------------|-------------------------------------------------------|--------------|-----------|------|
| <b>3<sup>rd</sup> Semester</b> |                                                       |              |           |      |
| 11                             | Animal Anatomy and Histology                          | 5 (3T + 2L)  | <b>6</b>  | ANSC |
| 504                            | Introduction to the Biochemistry of Animal Organisms  | 4 (2T + 2L)  | <b>4</b>  | ANSC |
| 12                             | Hydrobiology – Planktology                            | 6 (3T + 3L)  | <b>6</b>  | ANSC |
| 311                            | Statistics                                            | 4T           | <b>4</b>  | NRAE |
| 46                             | English III                                           | 2T           |           |      |
| <b>Free Electives (2 of 5)</b> |                                                       |              |           |      |
| 115                            | General Viticulture                                   | 5 (3T + 2L)  | <b>5</b>  | CRSC |
| 183                            | Agricultural Machinery (Farm Tractors-Farm Machinery) | 5 (3T + 2L)  | <b>5</b>  | NRAE |
| 229                            | Alternative Crops                                     | 5 (3T + 2L)  | <b>5</b>  | CRSC |
| 13                             | Introduction to Technical Design using AutoCAD        | 5 (3T + 2L)  | <b>5</b>  | NRAE |
| 210                            | Principles of Food Engineering                        | 5 (3T + 2L)  | <b>5</b>  | FSHN |
|                                |                                                       | <b>ECTS=</b> | <b>30</b> |      |

|                                |                                       |             |          |      |
|--------------------------------|---------------------------------------|-------------|----------|------|
| <b>4<sup>th</sup> Semester</b> |                                       |             |          |      |
| NEW                            | General & Special Animal Microbiology | 5 (3T + 2L) | <b>5</b> | ANSC |

|                                 |                                                      |              |           |      |
|---------------------------------|------------------------------------------------------|--------------|-----------|------|
| 2855                            | Rural Economics and Policy                           | 5T           | <b>4</b>  | AERD |
| 326                             | Statistical Data Analysis using Statistical Packages | 3L           | <b>3</b>  | NRAE |
| 235                             | Animal Physiology                                    | 6 (3T + 3L)  | <b>6</b>  | ANSC |
| 47                              | English IV                                           | 2T           |           |      |
| <b>Major Electives (1 of 3)</b> |                                                      |              |           |      |
| 310                             | Immunology                                           | 4 (2T + 2L)  | <b>2</b>  | ANSC |
| 327                             | Bioethics in Agricultural Science                    | 3T           | <b>2</b>  | ANSC |
| 329                             | Animal Models in Biomedical Science                  | 3 (2T + 1L)  | <b>2</b>  | ANSC |
| <b>Free Electives (2 of 4)</b>  |                                                      |              |           |      |
| 2075                            | Geographic Information Systems                       | 5 (3T + 2L)  | <b>5</b>  | NRAE |
| 2525                            | Soil Science and Fertilizers                         | 5 (3T + 2L)  | <b>5</b>  | CRSC |
| 3440                            | Pomology                                             | 5 (3T + 2L)  | <b>5</b>  | CRSC |
| 3390                            | Food Chemistry                                       | 5 (3T + 2L)  | <b>5</b>  | FSHN |
|                                 |                                                      | <b>ECTS=</b> | <b>30</b> |      |

|                                 |                                                                     |              |           |      |
|---------------------------------|---------------------------------------------------------------------|--------------|-----------|------|
| <b>5<sup>th</sup> Semester</b>  |                                                                     |              |           |      |
| 625                             | Feedstuffs & Feedstuffs Technology                                  | 6 (3T + 3L)  | <b>5</b>  | ANSC |
| 156                             | Ecology                                                             | 4T           | <b>4</b>  | CRSC |
| 166                             | The Physiological Bases of Farm Animal Reproduction and Lactation   | 4 (2T + 2L)  | <b>5</b>  | ANSC |
| 24                              | Grasslands Management                                               | 5 (3T + 2L)  | <b>5</b>  | ANSC |
| 48                              | English V                                                           | 2T           |           |      |
| <b>Major Electives (2 of 3)</b> |                                                                     |              |           |      |
| 162                             | Companion Animals Breeding                                          | 3T           | <b>3</b>  | ANSC |
| 296                             | Fisheries Biology and Management                                    | 3 (2T + 1L)  | <b>3</b>  | ANSC |
| 998                             | Quality and Certification Systems for Agricultural Products         | 3T           | <b>3</b>  | ANSC |
| <b>Free Electives (1 of 5)</b>  |                                                                     |              |           |      |
| 3625                            | Molecular Ecology and Adaptation                                    | 5 (3T + 2L)  | <b>5</b>  | BIOT |
| 3210                            | Microbial Biotechnology                                             | 5 (3T + 2L)  | <b>5</b>  | BIOT |
| 2089                            | Applications of Geographical Information Systems on the Environment | 5 (2T + 3L)  | <b>5</b>  | NRAE |
| 131                             | Treatment of Food Processing Wastes                                 | 5 (3T + 2L)  | <b>5</b>  | FSHN |
| 996                             | Marketing of Foods of Animal Origin                                 | 5T           | <b>5</b>  | AERD |
|                                 |                                                                     | <b>ECTS=</b> | <b>30</b> |      |

|                                |                                            |             |          |           |
|--------------------------------|--------------------------------------------|-------------|----------|-----------|
| <b>6<sup>th</sup> Semester</b> |                                            |             |          |           |
| 33                             | Farming of Domestic non-Ruminants          | 6 (4T + 2L) | <b>6</b> | ANSC      |
| 4                              | Nutritional Physiology of Animals          | 6 (4T + 2L) | <b>5</b> | ANSC      |
| 168                            | Ichthyology-Benthology                     | 6 (3T + 3L) | <b>5</b> | ANSC      |
| 161                            | Quality and Safety of Animal Food Products | 4T          | <b>4</b> | ANSC+FSHN |
| 49                             | Αγγλικά VI                                 | 2T          |          |           |

| <b>Major Electives (2 of 4)</b> |                                                 |              |           |      |
|---------------------------------|-------------------------------------------------|--------------|-----------|------|
| 237                             | Analytical Toxicology - Xenobiotics             | 4 (2T + 2L)  | <b>4</b>  | ANSC |
| 208                             | Electronic Commerce                             | 4 (2T + 2L)  | <b>4</b>  | AERD |
| 1510                            | Design and Organization of Livestock Facilities | 4T           | <b>4</b>  | NRAE |
| 630                             | Rural Sociology                                 | 4T           | <b>4</b>  | AERD |
| <b>Free Electives (1 of 2)</b>  |                                                 |              |           |      |
| 3616                            | Didactics - Agricultural Education              | 3T           | <b>2</b>  | AERD |
| 503                             | Climatology                                     | 2T           | <b>2</b>  | CRSC |
|                                 |                                                 | <b>ECTS=</b> | <b>30</b> |      |

| <b>7<sup>th</sup> Semester</b>  |                                                                                           |              |           |      |
|---------------------------------|-------------------------------------------------------------------------------------------|--------------|-----------|------|
| 2995                            | Farming of Domestic Ruminants                                                             | 6 (3T + 3L)  | <b>5</b>  | ANSC |
| 41                              | Aquaculture                                                                               | 6 (3T + 3L)  | <b>6</b>  | ANSC |
| 169                             | Ethology and Welfare of Farm Animals                                                      | 3T           | <b>3</b>  | ANSC |
| 159                             | The Physiological bases of Farm Animal Growth                                             | 4 (2T + 2L)  | <b>3</b>  | ANSC |
| 16                              | Principles of Animal Breeding                                                             | 5 (2T + 3L)  | <b>5</b>  | ANSC |
| <b>Major Electives (1 of 4)</b> |                                                                                           |              |           |      |
| 7                               | Principles of Human Nutrition                                                             | 3T           | <b>3</b>  | ANSC |
| 163                             | Special Animal Breeding (furred animals, snails, songbirds, cervidae, laboratory animals) | 3T           | <b>3</b>  | ANSC |
| 331                             | Veterinary Pharmacology                                                                   | 3T           | <b>3</b>  | ANSC |
| 316                             | Environmental Pollution                                                                   | 3T           | <b>3</b>  | CRSC |
| <b>Free Electives (1 of 5)</b>  |                                                                                           |              |           |      |
| 3721                            | Internet and Applications in Agriculture                                                  | 5 (2T + 3L)  | <b>5</b>  | AERD |
| 181                             | Meat and Milk Products Technology                                                         | 5 (3T + 2L)  | <b>5</b>  | FSHN |
| 3725                            | Business Strategic Planning                                                               | 5T           | <b>5</b>  | AERD |
| 2226                            | Precision Agriculture Technologies                                                        | 5 (3T + 2L)  | <b>5</b>  | NRAE |
| 241                             | Applications of Biomaterials in Biotechnology                                             | 5 (3T + 2L)  | <b>5</b>  | BIOT |
|                                 |                                                                                           | <b>ECTS=</b> | <b>30</b> |      |

| <b>8<sup>th</sup> Semester</b>  |                                                 |             |          |      |
|---------------------------------|-------------------------------------------------|-------------|----------|------|
| 375                             | Methods of Animal Breeding                      | 6 (4T + 2L) | <b>5</b> | ANSC |
| 39                              | Ruminants Nutrition                             | 6 (4T + 2L) | <b>5</b> | ANSC |
| 19                              | Diseases of Farm Animals                        | 6 (3T + 3L) | <b>5</b> | ANSC |
| 36                              | Production of Aquatic Organisms                 | 6 (3T + 3L) | <b>4</b> | ANSC |
| 6                               | Applications of Biotechnology in Animal Science | 4 (2T + 2L) | <b>3</b> | ANSC |
| <b>Major Electives (1 of 4)</b> |                                                 |             |          |      |
| 18                              | Animal Production – Environment                 | 4T          | <b>3</b> | ANSC |
| 332                             | Feed Manufacturing Technology                   | 3T          | <b>3</b> | ANSC |
| 333                             | Laboratory Diagnostics in Animals               | 3 (1T + 2L) | <b>3</b> | ANSC |
| 318                             | Fish Diseases                                   | 4 (2T + 2L) | <b>3</b> | ANSC |
| <b>Free Electives (1 of 5)</b>  |                                                 |             |          |      |

|      |                                                         |              |           |      |
|------|---------------------------------------------------------|--------------|-----------|------|
| 3401 | Dairy Technology II – Cheese Science                    | 5 (3T + 2L)  | <b>5</b>  | FSHN |
| 301  | Environmental and Marine Biotechnology                  | 5 (3T + 2L)  | <b>5</b>  | BIOT |
| 2000 | Introduction to R Programming Language for Data Science | 5 (2T + 3L)  | <b>5</b>  | AERD |
| 1850 | Phytopathology                                          | 5 (3T + 2L)  | <b>5</b>  | CRSC |
| 3515 | Agricultural Experimentation                            | 5 (3T + 2L)  | <b>5</b>  | CRSC |
|      |                                                         | <b>ECTS=</b> | <b>30</b> |      |

|                                |                                                       |              |           |      |
|--------------------------------|-------------------------------------------------------|--------------|-----------|------|
| <b>9<sup>th</sup> Semester</b> |                                                       |              |           |      |
| 34                             | Monogastrics Nutrition                                | 6 (3T + 3L)  | <b>5</b>  | ANSC |
| 495                            | Economics in Animal Production                        | 4T           | <b>4</b>  | AERD |
| 1690                           | Farm Animal Health                                    | 5 (3T + 2L)  | <b>4</b>  | ANSC |
| 167                            | Nutrition of Aquatic Organisms                        | 4 (2T + 2L)  | <b>3</b>  | ANSC |
| 1440                           | Livestock Production Systems                          | 2T           | <b>2</b>  | ANSC |
| -                              | Diploma Dissertation I                                | -            | <b>10</b> | ANSC |
| <b>Free Electives (1 of 5)</b> |                                                       |              |           |      |
| 336                            | Immunology and Applications in Animal Science         | 3 (2T + 1L)  | <b>2</b>  | ANSC |
| 238                            | Animal Production and Public Health                   | 2T           | <b>2</b>  | ANSC |
| 239                            | Intelligent Systems and Data Mining in Animal Science | 2 (1T + 1L)  | <b>2</b>  | AERD |
| 268                            | Principles of Animal Embryology                       | 2 (1T + 1L)  | <b>2</b>  | ANSC |
| 337                            | Herd Health Management in Ruminants                   | 3 (2T + 1L)  | <b>2</b>  | ANSC |
|                                |                                                       | <b>ECTS=</b> | <b>30</b> |      |

|                                   |                         |              |           |      |
|-----------------------------------|-------------------------|--------------|-----------|------|
| <b>10<sup>th</sup> Semester</b>   |                         |              |           |      |
| -                                 | Diploma Dissertation II | -            | <b>20</b> | ANSC |
| -                                 | Internship (2 months)   |              | <b>10</b> |      |
|                                   |                         | <b>ECTS=</b> | <b>30</b> |      |
|                                   |                         |              |           |      |
| <b>TOTAL ECTS in 5 years= 300</b> |                         |              |           |      |

Students can choose an additional 20 ECTS (maximum) from elective courses for which they will declare from the outset that they will not be counted towards the degree grade (they will simply be listed in the diploma supplement).

**Hours=** teaching hours/week (T= theory and L= lab practicals); **Dept=** Department that offers the course (ANSC: Department of Animal Science; CRSC: Department of Crop Science; AERD: Department of Agricultural Economics & Rural Development; BIOT; Department of Biotechnology; NRAE: Department of Natural Resources & Agricultural Engineering; FSHN: Department of Food Science & Human Nutrition).