**碩士班 動物科學與畜產系**

(一)教育目標

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| 培育現代化畜牧產業所需之高級研發人才，著重於畜牧產業升級之技術訓練與研究發展，並培養學生具有紮實的工作能力、學習能力與創造能力，以符職場需求，或從事科技研發與經營管理。此外，亦強化國際語文能力，增進對國際畜產現況之了解，使學生具備立足地球村應有的素養，以提升國際競爭力，俾使我國畜牧產業能夠永續經營。 |

(二)必修科目

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| 文 　科 　目 　名 　稱中英 | 學分數 | 第一學年 | 第二學年 | 備註 |
| 上 | 下 | 上 | 下 |
| 專題討論Seminar | 4 | 1 | 1 | 1 | 1 |  |
| 碩士論文Thesis | 6 |  |  | 3 | 3 |  |
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| 合計 | 10 | 1 | 1 | 4 | 4 |  |

（三）選修科目

| 　 文 　科 　目 　名 　稱中英 | 學分數 | 第一學年 | 第二學年 | 備註 |
| --- | --- | --- | --- | --- |
| 上 | 下 | 上 | 下 |
| 應用畜產微生物Applied Microbiology in Animal Science | 2 | 2 |  |  |  |  |
| 動物科學文獻選讀Literature Studying | 2 | 2 |  |  |  |  |
| 乳品化學Dairy Chemistry | 2 | 2 |  |  |  |  |
| 肉品化學Chemistry of Meat Tissue | 2 | 2 |  |  |  |  |
| 應用生物資訊學Applied Bioinformatics | 2 | 2 |  |  |  |  |
| 消化道生理Digestive Physiology | 2 | 2 |  |  |  |  |
| 禽畜營養生理Special Topics on Animal Nutritional Physiology | 2 | 2 |  |  |  |  |
| 生長發育學Growth and Development | 2 | 2 |  |  |  |  |
| 畜產統計特論Statistical Methods Useful in Animal Science | 2 | 2 |  |  |  |  |
| 動物生殖生理特論Special Topics on Animal Reproductive Physiology | 2 | 2 |  |  |  |  |
| 芻料品質評估Forage Evaluation | 2 | 2 |  |  |  |  |
| 動物科學研究新趨勢New Trends and Techniques in Animal Science Research | 2 | 2 |  |  |  | 30251 |
| 乳品加工特論Special Topics on Milk Products Processing | 2 |  | 2 |  |  |  |
| 肉品加工特論Special Topics on Meat Products Processing | 2 |  | 2 |  |  |  |
| 畜產加工用副原料之應用Applying Additives to Processing of Animal Products | 2 |  | 2 |  |  |  |
| 線性模式與育種Linear Model and Breeding | 2 |  | 2 |  |  |  |
| 動物代謝調節Animal Metabolic Regulation | 2 |  | 2 |  |  |  |
| 分子營養學Molecular Nutrition | 2 |  | 2 |  |  |  |
| 飼料技術特論Special Topics on Feed Manufacture Technology | 2 |  | 2 |  |  |  |
| 安全畜產品生產特論Special Topics on Safe Animal Production | 2 |  | 2 |  |  |  |
| 動物試驗設計Experimental Designs for Farm Animals | 2 |  | 2 |  |  |  |
| 環境溫度與禽畜生產Environmental Temperature and Livestock Production | 2 |  | 2 |  |  |  |
| 經濟動物繁殖管理特論Special Topics on Farm Animal Reproductive Management | 2 |  | 2 |  |  |  |
| 科學論文寫作Thesis Writing | 2 |  |  | 2 |  |  |
| 專技英文寫作Scientific Writing in English for Chinese Authors | 2 |  |  | 2 |  |  |
| 蛋品加工特論Special Topics on Egg Products Processing | 2 |  |  | 2 |  |  |
| 動物新產品開發方法論Methodology of Animal Products Development | 2 |  |  | 2 |  |  |
| 泌乳生理學Physiology of Lactation | 2 |  |  | 2 |  |  |
| 數量遺傳與動物模式論Quantitative Genetics and Animal Model Methodology | 2 |  |  | 2 |  |  |
| 機能性畜產品生產Production of Functional Animal Products | 2 |  |  | 2 |  |  |
| 草食動物營養特論Special Topics on Nutrition for Herbivores | 2 |  |  | 2 |  |  |
| 乳品加工發展新趨勢與個案討論New Trends and Special Cases in Dairy Industry | 2 |  |  | 2 |  |  |
| 畜產海外專業實習Overseas Practice of Animal Science | 2 |  |  | 2 |  |  |
| 動物舍規劃與自動化Animal House Arrangement and Automation | 2 |  |  | 2 |  |  |
| 禽畜副產物利用特論Utilization of Animal and Poultry By-products | 2 |  |  |  | 2 |  |
| 進階動物育種法Advanced Animal Breeding Methodology  | 2 |  |  |  | 2 |  |
| 動物基因轉殖特論Special Topics on Animal Transgenics | 2 |  |  |  | 2 |  |
| 種禽飼養管理Nutrition and Management of Poultry Breeders | 2 |  |  |  | 2 |  |
| 畜產經營特論Special Topics on Livestock Production Management | 2 |  |  |  | 2 |  |
| 畜產污染防治與資源利用Livestock Pollution Control and Resource Utilization | 2 |  |  |  | 2 |  |
| 安全畜產品品質管制Quality Control of Animal Products | 2 |  |  |  | 2 |  |
| 肉品安全與衛生管理新技術及其應用Applications of New Technologies on Meat Safety and Sanitation Management | 2 |  |  |  | 2 |  |
| 標記輔助選拔與基因選種Marker assisted selection and genomic breeding | 2 |  |  |  | 2 |  |
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| 合計 | 86 | 24 | 22 | 22 | 18 |  |