**食品科學國際碩士學位學程課程與核心能力之關聯檢核表**

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| **核心能力**  **Core Capabilities** | **能力指標與核心素養**  **Capabilities Index and**  **Core Accomplishment** | **對應課程**  **Related Courses** | **檢核機制**  **Evaluation** |
| 1. 具備食品科學專業能力，能夠分析及解決問題 2. Possessing professional knowledge of food science to analyze and solve problems | (1) 食品科學專業能力  (1) Knowledges of food Science  (2) 分析及解決問題  (2) Capable of analyzing and solving problems | **(1) 食品科學專業能力**  全球食品科技與產業特論  Special Topics in Global Food Technology and Industry  食品加工特論與實習  Special Topics and Practice of Food Processing  食品生物技術  Food Biotechnology  微生物生物技術  Microbial Biotechnology  活性天然物特論  Special Topics in Bioactive Natural Products  食品化學特論  Special Topics in Food Chemistry  全球食品行銷特論  Special Topics in Global Food Marketing  機能性食品  Functional Foods  食品免疫學  Practical Immunology in Food Science  食品檢驗技術特論  Special Topics in Food Analysis  食品工程特論  Special Topics in Food Engineering  食品酵素應用特論  Special Topics in Applications of Food Enzymes  精密儀器分析特論  Special Topics in Instrumental Analysis  高等分子生物學  Advanced Molecular Biology  食品安全特論  Special Topics in Food Safety  分子營養學  Molecular Nutrition | 1. 筆試及/或口試 2. Written and/or oral examinations 3. 口頭發表 4. Oral presentation 5. 撰寫報告 6. Written report |
| **(2) 分析及解決問題**  專題討論  Seminar  食品科技研究法  Methodology for Food Research  碩士論文  Thesis  糧食安全  Food Security  永續發展趨勢  Trends in Sustainable Development  談判與溝通  Negotiation Strategies and Tactics for Business  食品產業經營管理特論  Special Topics in Management and Administration of Food Industry  最適化在食品科技之應用  Optimization in Food Science and Technology  實驗設計  Experimental Design  食品經營專題  Seminar on Food Business Management | 1. 筆試及/或口試 2. Written and/or oral examinations 3. 口頭發表 4. Oral presentation 5. 撰寫報告 6. Written report |
| 1. 具備專業實務獨力作業能力 2. Possessing professional skills to work in industry independently | 專業實務獨力作業能力  (1) 食品生技作業能力  (1) Working skills of food biotechnology  (2) 安全食品作業能力  (2) Working skills of safe foods  (3) 食品加工作業能力  (3) Working skills of food processing | 1. **食品生技作業能力**   全球食品科技與產業特論  Special Topics in Global Food Technology and Industry  食品生物技術  Food Biotechnology  微生物生物技術  Microbial Biotechnology  活性天然物特論  Special Topics in Bioactive Natural Products  食品酵素應用特論  Special Topics in Applications of Food Enzymes  全球食品行銷特論  Special Topics in Global Food Marketing  機能性食品  Functional Foods | 1. 筆試及/或口試 2. Written and/or oral examinations 3. 口頭發表 4. Oral presentation 5. 撰寫報告 6. Written report |
| 1. **安全食品作業能力**   全球食品科技與產業特論  Special Topics in Global Food Technology and Industry  食品加工特論與實習  Special Topics and Practice of Food Processing  活性天然物特論  Special Topics in Bioactive Natural Products  精密儀器分析特論  Special Topics in Instrumental Analysis  食品檢驗技術特論  Special Topics in Food Analysis  機能性食品  Functional Foods  食品產業校外實習  Food Industry Internship  食品產業海外校外實習  Food Industry Internship Oversea | 1. 筆試及/或口試 2. Written and/or oral examinations 3. 口頭發表 4. Oral presentation 5. 撰寫報告 6. Written report |
| 1. **食品加工作業能力**   全球食品科技與產業特論  Special Topics in Global Food Technology and Industry  食品加工特論與實習  Special Topics and Practice of Food Processing  食品工程特論  Special Topics in Food Engineering  全球食品行銷特論  Special Topics in Global Food Marketing  乳品加工特論  Special Topics on Milk Products Processing  肉品加工特論  Special Topics on Meat Products Processing  蛋品加工特論  Special Topics on Egg Products Processing  最適化在食品科技之應用  Optimization in Food Science and Technology  實驗設計  Experimental Design  食品經營特論  Special Topics in Management and Administration of Food  食品經營專題  Seminar on Food Business Management | 1. 筆試及/或口試 2. Written and/or oral examinations 3. 口頭發表 4. Oral presentation 5. 撰寫報告 6. Written report |
| 1. 具有撰寫與發表科學研究成果與論文之能力 2. Capable of writing and presenting scientific research results and thesis | 科學研究報告撰寫與發表能力 | 專題討論  Seminar  食品科技研究法  Methodology for Food Research  碩士論文  Thesis  食品科學專技英文(1)  Scientific English in Writing (1)  食品科學專技英文(2)  Scientific English in Writing (2)  個別指導研習  Independent Study | 1. 筆試及/或口試 2. Written and/or oral examinations 3. 口頭發表 4. Oral presentation 5. 撰寫報告 6. Written report |