**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
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| **(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
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| 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
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| 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
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| 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
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| 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
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