

**Chang Jung Christian University Bachelor Degree Program in Food Safety/Hygiene and Laboratory
Sciences Curriculum List**

(Curriculum Guides,2022 Academic Year)

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| obligatory / elective course | No. | course name(ch) | course name | grade | semester | credit | hours/week | | Remark |
|------------------------------------|---------|--------------------|---|-------|----------|--------|-------------|----------|--------|
| | | | | | | | instruction | parctice | |
| common course-ob ligatory | PE00217 | 體育 I | Physical Education I | 1 | 1 | 0 | 2 | 0 | |
| | PE00218 | 體育 II | Physical Education II | 1 | 2 | 0 | 2 | 0 | |
| | PE00219 | 體育 III | Physical Education III | 2 | 1 | 0 | 2 | 0 | |
| | PE00220 | 體育 IV | Physical Education IV | 2 | 2 | 0 | 2 | 0 | |
| language course-ob ligatory | GE00561 | 國文 | Chinese | 1 | 1 | 2 | 2 | 0 | |
| | LE00297 | 英文 I | Freshman English I | 1 | 1 | 2 | 2 | 0 | |
| | LE00298 | 英文 II | Freshman English II | 1 | 2 | 2 | 2 | 0 | |
| | LE00299 | 外語初級 I | Foreign Language (basic)I | 2 | 1 | 2 | 2 | 0 | |
| | LE00300 | 外語初級 II | Foreign Language (basic)II | 2 | 2 | 2 | 2 | 0 | |
| general course-ob ligatory | GE00206 | 音樂欣賞 | Music Appreciation | 1 | 2 | 2 | 2 | 0 | |
| | GE00562 | 長榮精神 | University and Holistic Pastoral Education | 1 | 1 | 2 | 2 | 0 | |
| | GE00567 | 通識課程 | | 0 | 1 | 8 | 2 | 0 | |
| | GE00656 | 體驗學習 | Experience Learning | 1 | 1 | 1 | 1 | 2 | |
| dep. course-ob ligatory | FS00002 | 普通生物學 | General Biology | 1 | 1 | 2 | 2 | 0 | |
| | FS00003 | 生物統計 | Biostatistics | 1 | 1 | 2 | 2 | 0 | |
| | FS00000 | 普通化學 | General Chemistry | 1 | 1 | 2 | 2 | 0 | |
| | FS00004 | 普通化學實驗 | General Chemistry Laboratory | 1 | 1 | 1 | 0 | 2 | |
| | FS00129 | 環境與食品安全 檢驗概論與倫理 | Introduction to Environmental and Food Safety Laboratory Science, and Professional Ethics | 1 | 1 | 2 | 2 | 0 | |
| | FS00001 | 微積分 | Calculus | 1 | 2 | 2 | 2 | 0 | |
| | FS00103 | 有機化學 | Organic Chemistry | 1 | 2 | 2 | 2 | 0 | |
| | FS00104 | 分析化學 | Analytical Chemistry | 1 | 2 | 2 | 2 | 0 | |
| | FS00009 | 分析化學實驗 | Analytical Chemistry Laboratory | 1 | 2 | 1 | 0 | 2 | |
| | FS00112 | 食物學原理 | Food Fundamentals | 1 | 2 | 3 | 3 | 0 | |
| | FS00119 | 生物化學 I | Biochemistry I | 2 | 1 | 2 | 2 | 0 | |
| | FS00089 | 食品加工學 I | Food Processing I | 2 | 1 | 2 | 2 | 0 | |
| | FS00078 | 食品加工學實驗 | Food Processing Laboratory | 2 | 1 | 1 | 0 | 2 | |
| | FS00042 | 營養學 | Nutrition | 2 | 1 | 2 | 2 | 0 | |
| | FS00114 | 微生物學 | Microbiology | 2 | 1 | 2 | 2 | 0 | |
| | FS00014 | 檢驗品保 | Quality Assurance of Testings | 2 | 2 | 2 | 2 | 0 | |
| | FS00035 | 食品化學 | Food Chemistry | 2 | 2 | 3 | 3 | 0 | |
| | FS00120 | 生物化學 II | Biochemistry II | 2 | 2 | 2 | 2 | 0 | |
| | FS00040 | 食品微生物學 | Food Microbiology | 3 | 1 | 2 | 2 | 0 | |

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| dep. course-ob ligatory | FS00041 | 食品微生物學實驗 | Food Microbiology Laboratory | 3 | 1 | 1 | 0 | 2 | |
| | FS00071 | 食品衛生與安全 | Food Sanitation and Safety | 3 | 1 | 3 | 3 | 0 | |
| | FS00092 | 食品分析 I | Food Analysis I | 3 | 1 | 2 | 2 | 0 | |
| | FS00107 | 食品分析實驗 I | Food Analysis Laboratory I | 3 | 1 | 1 | 0 | 2 | |
| | FS00044 | 食品工廠管理 | Management of Food Factory | 3 | 2 | 2 | 2 | 0 | |
| | FS00126 | 儀器分析(含實驗) I | Instrumental Analysis (and Laboratory) I | 3 | 2 | 2 | 2 | 0 | |
| | FS00116 | 專題討論 I | Seminar I | 4 | 1 | 2 | 2 | 0 | |
| dep. course-el ective | ZE00000 | 跨領域微學分 I | Interdisciplinary Microcredit Course I | 0 | 1 | 1 | 1 | 0 | |
| | ZE00001 | 跨領域微學分 II | Interdisciplinary Microcredit Course II | 0 | 1 | 1 | 1 | 0 | |
| | ZE00002 | 跨領域微學分 III | Interdisciplinary Microcredit Course III | 0 | 1 | 1 | 1 | 0 | |
| | FS00087 | 食品科學概論 | Introduction to Food Science | 1 | 1 | 2 | 2 | 0 | |
| | FS00083 | 工業衛生概論 | Introduction of Industrial Hygiene | 1 | 1 | 2 | 2 | 0 | |
| | FS00020 | 環境倫理 | Environmental Ethics | 1 | 1 | 2 | 2 | 0 | |
| | FS00128 | 環境保護法規 | Environmental Regulations | 1 | 1 | 2 | 2 | 0 | |
| | FS00115 | 食品安全衛生法規 | Act and regulation of food safety and sanitation | 1 | 2 | 2 | 2 | 0 | |
| | FS00010 | 實驗室安全與衛生 | Laboratory Safety and Health | 1 | 2 | 2 | 2 | 0 | |
| | FS00025 | 資料統計與分析 | Statistical Data Analysis | 1 | 2 | 2 | 2 | 0 | |
| | FS00027 | 環境化學 | Environmental Chemistry | 1 | 2 | 2 | 2 | 0 | |
| | FS00026 | 計算機概論 | Introduction to Computer | 1 | 2 | 2 | 2 | 0 | |
| | FS00024 | 環境採樣與分析 | Environmental Sampling and Analysis | 2 | 1 | 2 | 2 | 0 | |
| | FS00073 | 職業安全衛生法規 | Laws and Regulations on Occupational Safety and Health | 2 | 1 | 2 | 2 | 0 | |
| | FS00102 | 噪音與振動 | Noise and Vibration | 2 | 1 | 2 | 2 | 0 | |
| | FS00019 | 毒物學原理 | Principles of Toxicology | 2 | 1 | 2 | 2 | 0 | |
| | FS00030 | 作業環境測定 I | Workplace Monitoring I | 2 | 1 | 2 | 2 | 0 | |
| | FS00064 | 環境教育 | Environmental Education | 2 | 1 | 2 | 2 | 0 | |
| | FS00090 | 食品加工學 II | Food ProcessingII | 2 | 2 | 2 | 2 | 0 | |
| | FS00088 | 食品品質管制 | Food Quality Control | 2 | 2 | 2 | 2 | 0 | |
| | FS00015 | 化學分析技術概論 | Introduction to Chemical Analysis Techniques | 2 | 2 | 2 | 2 | 0 | |
| | FS00036 | 食品化學實驗 | Food Chemistry Laboratory | 2 | 2 | 1 | 0 | 2 | |
| | FS00032 | 環境污染物分析 | Environmental Pollutant Analysis | 2 | 2 | 2 | 2 | 0 | |

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| dep. course-el ective | FS00033 | 環境汚染物分析 實驗 | Environmental Pollutant Analysis Laboratory | 2 | 2 | 1 | 0 | 2 | |
| | FS00062 | 食品工程學 | Food Engineering | 2 | 2 | 2 | 2 | 0 | |
| | FS00105 | 環境微生物學 | Environmental Microbiology | 2 | 2 | 2 | 2 | 0 | |
| | FS00108 | 作業環境測定 II | Workplace Monitoring II | 2 | 2 | 2 | 2 | 0 | |
| | FS00091 | 食品保存技術 | Food Preservation Technology | 3 | 1 | 2 | 2 | 0 | |
| | FS00039 | 水質檢驗 | Water Quality Testing | 3 | 1 | 2 | 2 | 0 | |
| | FS00079 | 工業與環境毒物 | Industrial and Environmental Toxicology | 3 | 1 | 2 | 2 | 0 | |
| | FS00051 | 發酵學 | Fermentation | 3 | 1 | 2 | 2 | 0 | |
| | FS00080 | 作業環境測定實 務 | Practices of Environmental Monitoring at Workplaces | 3 | 1 | 2 | 2 | 0 | |
| | FS00097 | 食品安全管制系 統 | Food Safety Control | 3 | 2 | 2 | 2 | 0 | |
| | FS00121 | 食品衛生管理實 務 | Case study of food hygiene management | 3 | 2 | 2 | 2 | 0 | |
| | FS00018 | 實驗室認證作業 程序 | Laboratory Accreditation Process | 3 | 2 | 2 | 2 | 0 | |
| | FS00093 | 食品分析 II | Food Analysis II | 3 | 2 | 2 | 2 | 0 | |
| | FS00095 | 食品分析實驗 II | Food Analysis Laboratory II | 3 | 2 | 1 | 0 | 2 | |
| | FS00075 | 粉塵測定與控制 | Measurement and Control on Dust | 3 | 2 | 2 | 2 | 0 | |
| | FS00081 | 工業安全衛生管 理實務 | Practical Management on Industrial Safety and Health | 3 | 2 | 2 | 2 | 0 | |
| | FS00072 | 環境污染調查評 估 | Investigation and Assessment of Environmental Pollutions | 3 | 2 | 2 | 2 | 0 | |
| | FS00048 | 分子生物學 | Molecular Biology | 3 | 2 | 3 | 3 | 0 | |
| | FS00049 | 分子生物學實驗 | Molecular Biology Laboratory | 3 | 2 | 1 | 0 | 2 | |
| | FS00082 | 職業病防治與介 紹 | Introduction to Occupational Diseases | 3 | 2 | 2 | 2 | 0 | |
| | FS00122 | 健康風險評估 | Health Risk Assessment | 4 | 1 | 2 | 2 | 0 | |
| | FS00100 | 食品風險管理 | Food Risk Management | 4 | 1 | 2 | 2 | 0 | |
| | FS00059 | 農藥殘留檢驗 | Pesticide Residue Analysis | 4 | 1 | 2 | 2 | 0 | |
| | FS00096 | 食品生物技術 | Food Biotechnology | 4 | 1 | 2 | 2 | 0 | |
| | FS00056 | 食品毒物學 | Food Toxicology | 4 | 1 | 2 | 2 | 0 | |
| | FS00052 | 專題研究 I | Special Topics I | 4 | 1 | 2 | 2 | 0 | |
| | FS00084 | 生物性危害評估 | Biological Hazards and Assessment | 4 | 1 | 2 | 2 | 0 | |
| | FS00016 | 鑑識科學概論 | Introduction to Forensic Science | 4 | 1 | 2 | 2 | 0 | |
| | FS00043 | 食品添加物 | Food Additives | 4 | 1 | 2 | 2 | 0 | |
| | FS00099 | 基因改造食品 | Genetically Modified Foods | 4 | 1 | 2 | 2 | 0 | |
| | FS00127 | 儀器分析(含實驗) II | Instrumental Analysis (and Laboratory) II | 4 | 1 | 2 | 2 | 0 | |

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| dep. course-el ective | FS00067 | 食品行銷學 | Food Marketing | 4 | 2 | 2 | 2 | 0 | |
| | FS00125 | 食品感官品評 | Food Sensory Evaluation | 4 | 2 | 2 | 2 | 0 | |
| | FS00068 | 新產品開發 | Development of Products | 4 | 2 | 2 | 2 | 0 | |
| | FS00109 | 專題研究 II | Special Topics II | 4 | 2 | 2 | 2 | 0 | |
| | FS00117 | 專題討論 II | Seminar II | 4 | 2 | 2 | 2 | 0 | |
| | FS00123 | 職場實習 | Field Internship | 4 | 2 | 9 | 0 | 18 | |
| obligatory 73 elective course 55 credit sum 128 The maximum elective credits from other departments that can be counted is 15 | | | | | | | | | |