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|------------------------------------|---------|-----------------|--|-------|----------|--------|-------------|----------|--------|--|--|
| obligatory<br>/ elective<br>course | No.     | course name(ch) | course name  | grade | semester | credit | hours/week  |          |        |  |  |
|                                    |         |                 |  |       |          |        | instruction | parctice | Remark |  |  |
| common<br>course-ob<br>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<br>course-ob<br>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<br>course-ob<br>ligatory   | GE00206 | 音樂欣賞            | Music Appreciation   | 1     | 2        | 2      | 2           | 0        |        |  |  |
|                                    | GE00562 | 長榮精神            | University and Holistic Pastoral<br>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.<br>course-ob<br>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        |        |  |  |
|                                    | FS00005 | 環境與食品安全<br>檢驗概論 | Introduction to Environmental and Food Safety Laboratory Science | 1     | 1        | 2      | 2           | 0        |        |  |  |
|                                    | FS00001 | 微積分             | Calculus   | 1     | 2        | 2      | 2           | 0        |        |  |  |
|                                    | FS00009 | 分析化學實驗          | Analytical Chemistry Laboratory                                  | 1     | 2        | 1      | 0           | 2        |        |  |  |
|                                    | FS00103 | 有機化學            | Organic Chemistry  | 1     | 2        | 2      | 2           | 0        |        |  |  |
|                                    | FS00104 | 分析化學            | Analytical Chemistry   | 1     | 2        | 2      | 2           | 0        |        |  |  |
|                                    | 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        |        |  |  |
|                                    | 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        |        |  |  |
|                                    | FS00089 | 食品加工學 [         | Food Processing I  | 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           |  | 2     | 2        | 2      | 2           | 0        |        |  |  |
|                                    | FS00040 | 食品微生物學          | Food Microbiology  | 3     | 1        | 2      | 2           | 0        |        |  |  |

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|-------------------------------|---------|-----------------|--|-------|----------|---|-------------|----------|--------|--|--|
| obligatory                    |         |                 |  |       |          |   | hours/week  |          |        |  |  |
| / elective course             | No.     | course name(ch) | course name  | grade | semester |   | instruction | parctice | Remark |  |  |
| dep.<br>course-ob<br>ligatory | FS00041 | 食品微生物學實<br>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        |        |  |  |
|                               | FS00106 | 儀器分析(含實驗<br>)   | Instrumental Analysis (and<br>Laboratory)              | 3     | 1        | 2 | 2           | 0        |        |  |  |
|                               | FS00092 | 食品分析 [          | 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        |        |  |  |
| dep.<br>course-el<br>ective   | FS00006 | 環保法規            | Environmental Laws and Regulations                     | 1     | 1        | 2 | 2           | 0        |        |  |  |
|                               | FS00083 | 工業衛生概論          | Introduction of Industrial<br>Hygiene                  | 1     | 1        | 2 | 2           | 0        |        |  |  |
|                               | FS00087 | 食品科學概論          | Introduction to Food Science                           | 1     | 1        | 2 | 2           | 0        |        |  |  |
|                               | FS00020 | 環境倫理            | Environmental Ethics                                   | 1     | 1        | 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        |        |  |  |
|                               | FS00115 | 食品安全衛生法<br>規    | Act and regulation of food safety and sanitation       | 1     | 2        | 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        |        |  |  |
|                               | FS00073 | 職業安全衛生法<br>規    | Laws and Regulations on Occupational Safety and Health | 2     | 1        | 2 | 2           | 0        |        |  |  |
|                               | FS00024 | 環境採樣與分析         | Environmental Sampling and<br>Analysis                 | 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        |        |  |  |
|                               | FS00015 | 化學分析技術概<br>論    | Introduction to Chemical Analysis Techniques           | 2     | 2        | 2 | 2           | 0        |        |  |  |
|                               | FS00032 | 環境污染物分析         | Environmental Pollutant<br>Analysis                    | 2     | 2        | 2 | 2           | 0        |        |  |  |
|                               | FS00033 | 環境污染物分析<br>實驗   | Environmental Pollutant<br>Analysis Laboratory         | 2     | 2        | 1 | 0           | 2        |        |  |  |
|                               | FS00036 | 食品化學實驗          | Food Chemistry 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        |        |  |  |
|                               | 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        |        |  |  |
|                               | FS00108 | 作業環境測定Ⅱ         | Workplace Monitoring II                                | 2     | 2        | 2 | 2           | 0        |        |  |  |
|                               | FS00039 | 水質檢驗            | Water Quality Testing                                  | 3     | 1        | 2 | 2           | 0        |        |  |  |

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|------------------------------------|----------|-----------------|--|-------|----------|--------|-------------|----------|--------|
| obligatory<br>/ elective<br>course | No.      | course name(ch) | course name  | grade | semester | credit | hours/week  |          | _      |
|                                    |          |                 |  |       |          |        | instruction | parctice | Remark |
| dep.<br>course-el<br>ective        | FS00051  | 發酵學             | Fermentation   | 3     | 1        | 2      | 2           | 0        |        |
|                                    | FS00080  | 作業環境測定實<br>務    | Practices of Environmental<br>Monitoring at Workplaces   | 3     | 1        | 2      | 2           | 0        |        |
|                                    | FS00091  | 食品保存技術          | Food Preservation Technology                             | 3     | 1        | 2      | 2           | 0        |        |
|                                    | FS00079  | 工業與環境毒物         | Industrial and Environmental Toxicology                  | 3     | 1        | 2      | 2           | 0        |        |
|                                    | FS00018  | 實驗室認證作業<br>程序   | Laboratory Accreditation Process                         | 3     | 2        | 2      | 2           | 0        |        |
|                                    | FS00072  | 環境污染調查評<br>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        |        |
|                                    | 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<br>理實務  | Practical Management on<br>Industrial Safety and Health  | 3     | 2        | 2      | 2           | 0        |        |
|                                    | FS00082  | 職業病防治與介 紹       | Introduction to Occupational Diseases                    | 3     | 2        | 2      | 2           | 0        |        |
|                                    | FS00095  | 食品分析實驗Ⅱ         | Food Analysis Laboratory II                              | 3     | 2        | 1      | 0           | 2        |        |
|                                    | FS00097  | 食品安全管制系<br>統    | Food Safety Control                                      | 3     | 2        | 2      | 2           | 0        |        |
|                                    | FS00093  | 食品分析Ⅱ           | Food Analysis II   | 3     | 2        | 2      | 2           | 0        |        |
|                                    | FS00121  | 食品衛生管理實<br>務    |  | 3     | 2        | 2      | 2           | 0        |        |
|                                    | FS00122  | 健康風險評估          |  | 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        |        |
|                                    | FS00059  | 農藥殘留檢驗          | Pesticide Residue Analysis                               | 4     | 1        | 2      | 2           | 0        |        |
|                                    | FS00084  | 生物性危害評估         | Biological Hazards and<br>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        |        |
|                                    | FS00100  | 食品風險管理          | Food Risk Management                                     | 4     | 1        | 2      | 2           | 0        |        |
|                                    | FS00101  | 職場英文            | Workplace English  | 4     | 1        | 2      | 2           | 0        |        |
|                                    | FS00096  | 食品生物技術          | Food Biotechnology                                       | 4     | 1        | 2      | 2           | 0        |        |
|                                    | FS00116  | 專題討論Ⅰ           | Seminar I  | 4     | 1        | 2      | 2           | 0        |        |
|                                    | FS00067  | 食品行銷學           | Food Marketing   | 4     | 2        | 2      | 2           | 0        |        |
|                                    | FS00066  | 食品官能品評          | 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        |        |

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| obligatory                  |         |                 |                  |       |          |        | hours/week |          |        |
|-----------------------------|---------|-----------------|------------------|-------|----------|--------|------------|----------|--------|
| / elective course           | No.     | course name(ch) | course name      | grade | semester | credit |            | parctice | Remark |
| dep.<br>course-el<br>ective | 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 71

elective course 57

credit sum 128

The maximum elective credits from other departments that can be counted is 15