

## Four-Year Study Plan of Food Science and Technology Programme (2022 cohort)

Rev 20231214

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| Course Code                                | Course Title                                                                                                                                                                                    | Year One |       | Year Two       |       | Year Three     |       | Year Four |                |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|----------------|-------|----------------|-------|-----------|----------------|
|                                            |                                                                                                                                                                                                 | Sem 1    | Sem 2 | Sem 1          | Sem 2 | Sem 1          | Sem 2 | Sem 1     | Sem 2          |
| I. Major Required Courses (61 Units)       |                                                                                                                                                                                                 |          |       |                |       |                |       |           |                |
| FOOD1033                                   | Introduction to Food Science                                                                                                                                                                    | 3        |       |                |       |                |       |           |                |
| SCIT1023                                   | Laboratory Safety                                                                                                                                                                               | 1        |       |                |       |                |       |           |                |
| BIOL2003                                   | General Biology                                                                                                                                                                                 |          | 3     |                |       |                |       |           |                |
| CHEM2003                                   | General Chemistry                                                                                                                                                                               |          | 3     |                |       |                |       |           |                |
| STAT1013                                   | Introduction to Probability and Statistics                                                                                                                                                      |          | 3     |                |       |                |       |           |                |
| BIOL2063                                   | Biochemistry                                                                                                                                                                                    |          |       | 3              |       |                |       |           |                |
| BIOL2073                                   | Physiology                                                                                                                                                                                      |          |       | 3              |       |                |       |           |                |
| ENGI2003                                   | Mechanical Engineering and Practice                                                                                                                                                             |          |       | 3              |       |                |       |           |                |
| BIOL2013                                   | General Biology and Chemistry Laboratory                                                                                                                                                        |          |       |                | 3     |                |       |           |                |
| BIOL2033                                   | Food Microbiology                                                                                                                                                                               |          |       |                | 3     |                |       |           |                |
| FOOD2013                                   | Food Chemistry                                                                                                                                                                                  |          |       |                | 3     |                |       |           |                |
| FOOD3013                                   | Nutrition                                                                                                                                                                                       |          |       |                | 3     |                |       |           |                |
| CHEM2033                                   | Analytical Chemistry                                                                                                                                                                            |          |       |                |       | 3              |       |           |                |
| FOOD3003                                   | Food Analysis                                                                                                                                                                                   |          |       |                |       | 3              |       |           |                |
| FOOD3033                                   | Chemical and Food Analysis Laboratory                                                                                                                                                           |          |       |                |       | 3              |       |           |                |
| ENGI2013                                   | Engineering Drawing and AutoCAD Practice                                                                                                                                                        |          |       |                |       |                | 3     |           |                |
| FOOD3083                                   | Research Methods in Food Science                                                                                                                                                                |          |       |                |       |                | 3     |           |                |
| FOOD3023                                   | Food Toxicology                                                                                                                                                                                 |          |       |                |       |                | 3     |           |                |
| FOOD3053                                   | Food Materials Science                                                                                                                                                                          |          |       |                |       |                | 3     |           |                |
| FOOD3063                                   | Food Process Engineering                                                                                                                                                                        |          |       |                |       |                | 3     |           |                |
| FOOD3073                                   | Food Science Laboratory                                                                                                                                                                         |          |       |                |       |                | 3     |           |                |
| FOOD4004                                   | Final Year Project I (FOOD)                                                                                                                                                                     |          |       |                |       |                |       | 3         |                |
| II. Major Elective Courses (18 Units)      |                                                                                                                                                                                                 |          |       |                |       |                |       |           |                |
| ME01 ME02 ME03 ME04 ME05 ME06              |                                                                                                                                                                                                 |          |       |                |       | 6 <sup>③</sup> | 3     | 6         | 3 <sup>④</sup> |
| III. University Core Courses (37 Units)    |                                                                                                                                                                                                 |          |       |                |       |                |       |           |                |
| UCLC1003                                   | University Chinese                                                                                                                                                                              | 3        |       |                |       |                |       |           |                |
| UCLC1013                                   | English for Academic Purposes I                                                                                                                                                                 | 3        |       |                |       |                |       |           |                |
| UCLC1023                                   | English for Academic Purposes II                                                                                                                                                                |          | 3     |                |       |                |       |           |                |
| UCLC1033                                   | English for Academic Purposes III                                                                                                                                                               |          |       |                | 3     |                |       |           |                |
| CHI1103                                    | Introduction to Modern Social Theories                                                                                                                                                          | 3        |       |                |       |                |       |           |                |
| CHI1203                                    | Morality and Foundations of Law                                                                                                                                                                 |          |       | 3              |       |                |       |           |                |
| CHI1063                                    | Chinese Culture and Modern China                                                                                                                                                                |          |       |                | 3     |                |       |           |                |
| CHI1073                                    | Contemporary Chinese Society and Thought I                                                                                                                                                      |          | 3     |                |       |                |       |           |                |
| CHI1253                                    | Contemporary Chinese Society and Thought II                                                                                                                                                     |          | 3     |                |       |                |       |           |                |
| CHI1193                                    | Contemporary World and China <sup>①</sup>                                                                                                                                                       |          |       |                | 2     |                |       |           |                |
| MT1003                                     | Military Training                                                                                                                                                                               | 2        |       |                |       |                |       |           |                |
| WPEX1013                                   | Emotional Intelligence                                                                                                                                                                          |          | 1     |                |       |                |       |           |                |
| WPEX2013                                   | Experiential Arts <sup>②</sup>                                                                                                                                                                  |          |       |                | 1     |                |       |           |                |
| WPEX2023/<br>WPEX2033                      | Voluntary Service <sup>②</sup> , or Environmental Awareness <sup>②</sup>                                                                                                                        |          |       | 1              |       |                |       |           |                |
| UCLH1XX3                                   | Healthy Lifestyle <sup>②</sup>                                                                                                                                                                  | 1        | 1     |                | 1     |                |       |           |                |
| IV. General Education Courses (18 Units)   |                                                                                                                                                                                                 |          |       |                |       |                |       |           |                |
| Level 1                                    | History and Civilization <sup>②</sup>                                                                                                                                                           |          |       | 3              |       |                |       |           |                |
| Foundational Courses                       | Quantitative Reasoning <sup>②</sup>                                                                                                                                                             | 3        |       |                |       |                |       |           |                |
|                                            | Values and the Meaning of Life <sup>③</sup>                                                                                                                                                     |          | 3     |                |       |                |       |           |                |
| Level 2 Interdisciplinary Thematic Courses | Culture, Creativity and Innovation <sup>④</sup> , or Science, Technology and Society <sup>④</sup> , or Sustainable Communities <sup>④</sup>                                                     |          |       | 3 <sup>⑤</sup> |       | 3              |       |           |                |
| Level 3 GE Capstone Courses                | Service-Learning Course <sup>⑥</sup> , or Service Leadership Education Course <sup>⑥</sup> , or Experiential Learning Course <sup>⑥</sup> , or Interdisciplinary Independent Study <sup>⑥</sup> |          |       |                |       |                |       |           | 3 <sup>⑦</sup> |
| V. Free Elective Courses (18 Units)        |                                                                                                                                                                                                 |          |       |                |       |                |       |           |                |
| FE01 FE02 FE03 FE04 FE05 FE06              |                                                                                                                                                                                                 | 3        |       |                |       | 3              | 3     | 6         | 3              |
| Total Units: 152                           |                                                                                                                                                                                                 | 22       | 23    | 19             | 22    | 21             | 21    | 15        | 9              |

<sup>①</sup> This 2-unit course requires student to attend at least 10 lectures within his/her first two years of study.

<sup>②</sup> This denotes a course category in which a list of courses may be developed for students' selection. Students are expected to refer to the Online Course Selection System for courses available under each category.

<sup>③</sup> Students are required to take one among the four courses: ACCT2003/ACCT2043 Principles of Accounting I, ECON2003 Principles of Macroeconomics, ECON2013 Principles of Microeconomics, and MHR3003 Human Resource Management.

<sup>④</sup> Students who would like to continue with the final year project in the second semester of Year 4 should register FOOD4005 Final Year Project II (FOOD) as a major elective during the Online Course Selection (or Course Add/Drop) period.

<sup>⑤</sup> Students are required to take GFVM1033 Ethics in An Era of Artificial Intelligence and Robotics or GFVM1043 Ethics in Daily Life and Life Sciences under this category.

<sup>⑥</sup> Students are required to choose one course from GTSC2093 IT for Success in Everyday Life and Work, or GTSC2053 Telling a Story with Data.

<sup>⑦</sup> Students are required to take GCAP3203 Selected Topics in Food and Nutritional Science.

**ME Course List of FS (2022 cohort)**

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| Course Code                                  | Course Title                                                      | Units        |
|----------------------------------------------|-------------------------------------------------------------------|--------------|
| <b>ME Courses on Science and Technology</b>  |                                                                   |              |
| BIOL3043                                     | Molecular Biology                                                 | 3            |
| CHEM2043                                     | Physical Chemistry                                                | 3            |
| CHEM2063                                     | Organic Chemistry                                                 | 3            |
| ENGI2013                                     | Engineering Drawing and AutoCAD Practice                          | 3            |
| FOOD3043                                     | Life Cycle Nutrition                                              | 3            |
| <del>FOOD3083</del>                          | <del>Research Methods in Food Science</del>                       | <del>3</del> |
| FOOD4003                                     | Food Safety and Quality Management System                         | 3            |
| <del>FOOD4005</del>                          | <del>Final Year Project II (FOOD)</del>                           | <del>3</del> |
| FOOD4013                                     | Meat and Dairy Science                                            | 3            |
| FOOD4023                                     | Functional Foods                                                  | 3            |
| FOOD4033                                     | Grain and Cereal Science                                          | 3            |
| FOOD4043                                     | Food Biotechnology                                                | 3            |
| FOOD4053                                     | Food Waste Management                                             | 3            |
| FOOD4073                                     | Fruit and Vegetable Science                                       | 3            |
| <del>FOOD4083</del>                          | <del>Introduction to Human Pathophysiology and Pharmacology</del> | <del>3</del> |
| <del>FOOD4093</del>                          | <del>Nutrition and Disease Prevention</del>                       | <del>3</del> |
| FOOD4103                                     | Nutrition in Medical Therapy                                      | 3            |
| FOOD4113                                     | Food Microbiology and Food Safety Laboratory                      | 3            |
| FOOD4123                                     | Food Packaging                                                    | 3            |
| FOOD4133                                     | Wine and Cheese Science                                           | 3            |
| FOOD4143                                     | Nutrition in Practice                                             | 3            |
| FOOD4153                                     | Food Product Development and Practice                             | 3            |
| <del>FOOD4163</del>                          | <del>Advanced Food Engineering</del>                              | <del>3</del> |
| <del>FOOD4173</del>                          | <del>Flavor and Sensory Sciences</del>                            | <del>3</del> |
| <del>FOOD4183</del>                          | <del>Food Colloids and Component Science</del>                    | <del>3</del> |
| <del>FOOD4193</del>                          | <del>Nutritional Biochemistry</del>                               | <del>3</del> |
| PHYS2003                                     | Principles of Physics                                             | 3            |
| <b>ME Courses on Business and Management</b> |                                                                   |              |
| ACCT2003/ACCT2043                            | Principles of Accounting I*                                       | 3            |
| ECON2003                                     | Principles of Macroeconomics                                      | 3            |
| ECON2013                                     | Principles of Microeconomics                                      | 3            |
| MHR3003                                      | Human Resource Management                                         | 3            |

\* This course has been recoded from ACCT2003 to ACCT2043 with effective from Semester 2 of AY2022/23.