

Four-Year Study Plan of Food Science and Technology Programme (2025 cohort)

Rev 20250422

Rev 20230422

| Course Code | Course Title | Year One | | | Year Two | | | Year Three | | Year Four | |
|--|---|----------|--------|-------|----------------|-------|--------|------------|-------|----------------|----------------|
| | | Sem 1 | Winter | Sem 2 | Sem 1 | Sem 2 | Summer | 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 | | | | | | | |
| MATH1123 | Calculus for Science and Engineering | | | 3 | | | | | | | |
| BIOL2063 | Biochemistry | | | | 3 | | | | | | |
| BIOL2073 | Physiology | | | | 3 | | | | | | |
| STAT1013 | Introduction to Probability and Statistics | | | | 3 | | | | | | |
| BIOL2013 | General Biology and Chemistry Laboratory | | | | | 3 | | | | | |
| BIOL2033 | Food Microbiology | | | | | 3 | | | | | |
| FOOD2013 | Food Chemistry | | | | | 3 | | | | | |
| MATH1003 | Linear Algebra | | | | | 3 | | | | | |
| CHEM2033 | Analytical Chemistry | | | | | | | 3 | | | |
| FOOD3003 | Food Analysis | | | | | | | 3 | | | |
| FOOD3013 | Nutrition | | | | | | | 3 | | | |
| FOOD3033 | Chemical and Food Analysis Laboratory | | | | | | | 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 | | | | | | | | 3 | 6 | 6 ^③ | 3 ^④ |
| III. University Core Courses (37 Units) | | | | | | | | | | | |
| UCLC1003 | University Chinese | | | 3 | | | | | | | |
| UCLC1013 | English for Academic Purposes I | 3 | | | | | | | | | |
| UCLC1023 | English for Academic Purposes II | | | 3 | | | | | | | |
| UCAI1003 | Introduction to AI Literacy | 3 | | | | | | | | | |
| CHII103 | Introduction to Modern Social Theories | | | | 3 | | | | | | |
| CHII203 | Morality and Foundations of Law | | | 3 | | | | | | | |
| CHII063 | Chinese Culture and Modern China | | | | | 3 | | | | | |
| CHII073 | Contemporary Chinese Society and Thought I | 3 | | | | | | | | | |
| CHII253 | Contemporary Chinese Society and Thought II | | | | | 3 | | | | | |
| CHII193 | Contemporary World and China ^① | | | | | | 2 | | | | |
| MT1003 | Military Training | | 2 | | | | | | | | |
| WPEX1013 | Emotional Intelligence | | | 1 | | | | | | | |
| WPEX2013 | Experiential Arts ^② | | | | | 1 | | | | | |
| WPEX2023/ WPEX2033 | Voluntary Service ^② , or Environmental Awareness ^② | | | | 1 | | | | | | |
| UCHL1XX3 | Healthy Lifestyle ^② | 1 | | 1 | | 1 | | | | | |
| IV. General Education Courses (18 Units) | | | | | | | | | | | |
| Level 1 | History and Civilization ^② | | | | 3 | | | | | | |
| Foundational Courses | Quantitative Reasoning ^② | 3 | | | | | | | | | |
| | Values and the Meaning of Life ^② | | | 3 | | | | | | | |
| Level 2 Interdisciplinary Thematic Courses | Culture, Creativity and Innovation ^③ , or Science, Technology and Society ^③ , or Sustainable Communities ^③ | | | | 3 ^③ | | | 3 | | | |
| Level 3 GE Capstone Courses | Service-Learning Course ^④ , or Service Leadership Education Course ^④ , or Experiential Learning Course ^④ , or Interdisciplinary Independent Study ^④ | | | | | | | | | | 3 ^④ |
| V. Free Elective Courses (18 Units) | | | | | | | | | | | |
| FE01 FE02 FE03 FE04 FE05 FE06 | | | | | | | | 3 | 3 | 6 | 6 |
| Total Units: 152 | | 17 | 2 | 23 | 19 | 20 | 2 | 21 | 21 | 15 | 12 |

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

② 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.

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

④ 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.

⑤ 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.

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

⑦ Students are required to take GCAP3203 Selected Topics in Food and Nutritional Science.

ME Course List of FS (2025 cohort)

Rev 20250324

| Course Code | Course Title | Units |
|---|--|-------|
| <i>ME Courses on Science and Technology</i> | | |
| BIOL3043 | Molecular Biology | 3 |
| CHEM2043 | Physical Chemistry | 3 |
| CHEM2063 | Organic Chemistry | 3 |
| ENGI2003 | Mechanical Engineering and Practice | 3 |
| ENGI2013 | Engineering Drawing and AutoCAD Practice | 3 |
| FOOD3043 | Life Cycle Nutrition | 3 |
| FOOD3083 | Research Methods in Food Science | 3 |
| FOOD3093 | Community Nutrition | 3 |
| FOOD4003 | Food Safety and Quality Management System | 3 |
| FOOD4005 | Final Year Project II (FOOD) | 3 |
| 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 |
| FOOD4083 | Introduction to Human Pathophysiology and Pharmacology | 3 |
| FOOD4093 | Nutrition and Disease Prevention | 3 |
| 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 |
| GH2003 | Principles of Global Health | 3 |
| GH2013 | Lifestyle in Health and Disease | 3 |
| GH2023 | Environmental and Occupational Health Sciences | 3 |
| GH3003 | Globalization and Health | 3 |
| GH4003 | Health System, Policy and Management | 3 |
| PHYS2003 | Principles of Physics | 3 |
| <i>ME Courses on Business and Management</i> | | |
| ACCT2043 | Principles of Accounting I | 3 |
| ECON2003 | Principles of Macroeconomics | 3 |
| ECON2013 | Principles of Microeconomics | 3 |
| MHR3003 | Human Resource Management | 3 |