

Table 1. – Plan of study of the Bachelor “Food Science and technology” at Mahidol + Requirements to be admitted at LM-69/70 “Master of Science in Agricultural and food economics” at Università Cattolica del Sacro Cuore.

| Mahidol courses | Credits |
|--|----------------|
| Biology | 4 |
| General Chemistry I | 4 |
| General Chemistry II | 4 |
| Integrated Laboratory Techniques in Chemistry I | 2 |
| Analytical Chemistry A | 4 |
| Organic Chemistry I | 4 |
| Human Nutrition | 4 |
| General Biochemistry for Food Science and Technology | 2 |
| Physical Chemistry for Food Science and Technology | 2 |
| General Microbiology | 4 |
| Calculus I | 4 |
| Statistics for Science I | 4 |
| Calculus II | 4 |
| Physics I | 4 |
| Principle of Food Science and technology | 2 |
| Food Analysis | 4 |
| Food Chemistry | 4 |
| Food Ingredients Functionality | 2 |
| Food Microbiology | 4 |
| Food Microbiology Laboratory | 2 |
| Food Processing | 4 |
| Food Storage and Shelf life Extension | 4 |
| Smart and Green Agro-Industry | 2 |
| Food Engineering Principles | 2 |
| Unit Operations in Food Engineering | 3 |
| Principles of Quality Assurance in Food Processing | 4 |
| Food Safety and Sanitation | 4 |
| Food Law and Standards | 3 |
| Scientific Research and Presentation | 2 |
| Seminar in Food Science and Technology | 2 |
| Internship in Food Science and Technology | 4 |

Table 2 - Plan of study of the Master of Science in “Agricultural and food economics” at Cattolica that has to be taken by Mahidol students.

A) Curriculum: Sustainable food systems

| Cattolica courses | ECTS credits |
|---|---------------------|
| 1st YEAR | |
| Agricultural and food marketing | 6 |
| Business management and finance | 11 |
| Economic fundamentals of the agri-food system | 10 |
| Food safety management | 10 |
| Industrial organization | 10 |
| Quantitative methods | 12 |
| Research methods in agricultural and food economics | 1 |
| Teologia - corso seminariale | 0 |
| 2nd YEAR | |
| Agricultural and food market institutions | 6 |
| Economics of agricultural and food markets | 7 |
| Economics of sustainability and circularity in food systems | 5 |
| Food footprint: the environmental impact of the agro food chain | 5 |
| Sustainability budget and corporate social responsibility | 5 |
| Elective courses | 10 |
| Seminars | 1 |
| Soft skills and entrepreneurship | 1 |
| Thesis | 20 |
| Total credits | 120 |

B) Curriculum: Management and innovation

| Cattolica courses | ECTS credits |
|---|---------------------|
| 1st YEAR | |
| Agricultural and food marketing | 6 |
| Business management and finance | 11 |
| Economic fundamentals of the agri-food system | 10 |
| Food safety management | 10 |
| Industrial organization | 10 |
| Quantitative methods | 12 |
| Research methods in agricultural and food economics | 1 |
| Teologia - corso seminariale | 0 |
| 2nd YEAR | |
| Agricultural and food market institutions | 6 |
| Business strategy and leadership | 5 |
| Economics of agricultural and food markets | 7 |
| Food consumer psychology and market intelligence | 5 |
| Multi-channel retail marketing | 5 |
| Elective courses | 10 |
| Seminars | 1 |
| Soft skills and entrepreneurship | 1 |
| Thesis | 20 |
| Total credits | 120 |

*During the first year in the Master of Science at Cattolica, MUIC students are requested to complete research for their Bachelor thesis. This extra activity will be recorded by Cattolica in the students' Transcript of records.