



# Cornell Institute of Food Science

## Bachelor of Science Program in Food Science

### *Food Operations & Management Option*

**Curriculum  
Outline**

**Freshman Year**

| <i>Fall Semester</i>             | <i>Credits</i> | <i>Spring Semester</i>                     | <i>Credits</i> |
|----------------------------------|----------------|--|----------------|
| FDSC 1101 Sci & Tech of Foods    | 1              | FDSC 1102 Leadership & Career Skills in FS | 2              |
| CHEM 1560 Intro to Chemistry     | 4              | CHEM 1570 Intro Organic & Biol Chem        | 3              |
| MATH 1110 Calculus               | 4              | ECON 1110 Intro Economics (Micro)          | 3              |
| BIOG 1140 Foundations of Biology | 4              | PLHRT 1115 The Nature of Plants            | 3              |
| Freshman Writing Seminar         | 3              | Freshman Writing Seminar                   | 3              |
|                                  | <b>(16)</b>    |  | <b>(14)</b>    |

**Sophomore Year**

| <i>Fall Semester</i>  | <i>Credits</i> | <i>Spring Semester</i>                          | <i>Credits</i> |
|---|----------------|---|----------------|
| FDSC 2000 Intro Physicochemical and Biological Aspects of Foods | 3              | FDSC 2100 Food Analysis                         | 3              |
| PHYS 1101 General Physics                                       | 4              | BIOMI 2900 Gen Microbiology Lec                 | 3              |
| NS 1150 Nutrition and Health                                    | 3              | BIOMI 2910 Gen Microbiology Lab                 | 2              |
| AEM 2400 Marketing  | 3              | AEM 1200 Intro to Business Management           | 3              |
| <i>Humanities, Career OR General Electives*</i>                 | 3              | <i>Humanities, Career OR General Electives*</i> | 3              |
|   | <b>(16)</b>    |   | <b>(14)</b>    |

**Junior Year**

| <i>Fall Semester</i>                            | <i>Credits</i> | <i>Spring Semester</i>                          | <i>Credits</i> |
|---|----------------|---|----------------|
| FDSC 4210 Food Engineering Principles           | 4              | FDSC 4170 Food Chemistry I                      | 3              |
| FDSC 3940 Food Microbiology Lecture             | 3              | Oral Expression**                               | 3              |
| AEM 3430 Principles of Supply Chain Management  | 3              | Statistics***                                   | 4              |
| <i>Humanities, Career or General Electives*</i> | 6              | AEM 2480 Food and Consumer Packaged Goods       | 3              |
|   | <b>(16)</b>    | <i>Humanities, Career OR General Electives*</i> | 2              |
|   |                |   | <b>(15)</b>    |

**Senior Year**

| <i>Fall Semester</i>   | <i>Credits</i> | <i>Spring Semester</i>                          | <i>Credits</i> |
|--|----------------|---|----------------|
| FDSC 4100 Sensory Evaluation of Foods                                | 3              | FDSC 4000 Capstone Project in Food Sci          | 2              |
| FDSC 4230 Physical Principles of Food Preservation and Manufacturing | 3              | FDSC 3960 Food Safety Assurance                 | 2              |
| NCC5500 OR, HADM 2230 OR AEM 2210                                    | 3              | FDSC 4010 Concepts of Product Development       | 2              |
| Financial Accounting   | 3              | <i>Humanities, Career or General Electives*</i> | 9              |
| <i>Humanities, Career or General Electives*</i>                      | 6              |   |                |
|  | <b>(15)</b>    |   | <b>(15)</b>    |

**Requirements/  
Recommendations**

\* Students select appropriate career or general electives to bring the total semester hours to the required level. An average of 15 is needed to graduate in 8 semesters. Suggested Career or General Electives: FDSC 3950, 4190, 4250, 4300, other AEM or HADM courses or other courses of interest.

\*\*Oral expressions suggested courses: COMM 2010, ILRLR 3300

\*\*\* Statistics courses suggested: AEM 2100; STSCI 2100, 2150 or 2200; MATH 1710; PSYCH 3500

**Also required: one additional course or at least 3 credit hours from the following list of courses:** AEM 1230, 1260, 3040, 3250, 3340, 4310, 4400, 4420, 4460/4470.