# Bachelor of Science in Food Science: Safety Emphasis

**Example Four-Year Schedule – Safety Emphasis**

## Freshman Year

**Fall**
- FDSC 1101: Science and Tech. of Foods (1 cr.)
- CHEM 2070: General Chemistry I (4 cr.)
- MATH 1110: Calculus I (4 cr.)
- Introductory Biology* (3 cr.)
- Freshman Writing Seminar (3 cr.)
- Physical Education class

**Total credits: 15 + PE**

**Spring**
- FDSC 1102: Leadership and Careers in FS (2 cr.)
- CHEM 2080: General Chemistry II (4 cr.)
- MATH 1120: Calculus II (4 cr.)
- Introductory Biology* (3 cr.)
- Freshman Writing Seminar (3 cr.)
- Physical Education class

**Total credits: 16 + PE**

## Sophomore Year

**Fall**
- CHEM 3570: Organic Chemistry I (3 cr.)
- PHYS 1101 or 2207: General Physics (4 cr.)
- NS 1150: Nutrition and Health (3 cr.)
- Humanities elective (3 cr.)

**Total credits: 16**

**Spring**
- FDSC 2100: Food Analysis (3 cr.)
- CHEM 3580: Organic Chemistry II (3 cr.)
- BIOMI 2900: General Microbiology (3 cr.)
- BIOMI 2910: General Micro. Laboratory (2 cr.)
- Humanities elective (3 cr.)

**Total credits: 14**

## Junior Year

**Fall**
- FDSC 4210: Food Engineering (4 cr.)
- FDSC 3940: Food Microbiology (3 cr.)
- FDSC 3950: Food Micro. Laboratory (3 cr.)
- BIOMG 3310: Biochemistry, Proteins (3 cr.)
- Statistics course* (4 cr.)

**Total credits: 17**

**Spring**
- FDSC 4170: Food Chemistry I (3 cr.)
- NS 6110: Molecular Toxicology (3 cr.)
- Oral Expression course* (3 cr.)
- BIOMS 4040: Pathogenic Bacteriology (3 cr.)
- FDSC 3960: Food Safety Assurance (2 cr.)

**Total credits: 14**

## Senior Year

**Fall**
- FDSC 4100: Sensory Evaluation of Food (3 cr.)
- FDSC 4180: Food Chemistry II (3 cr.)
- PAM 3280: Fund. Of Population Health (3 cr.)
- Diversity course (3 cr.)
- Humanities elective (3 cr.)

**Total credits: 15**

**Spring**
- FDSC 4000: Capstone Project in FS (2 c.)
- FDSC 4250: Food Processing B (3 cr.)
- CEE 5970: Risk Analysis and Management (2 cr.)
- BIOMS 4340: Cell. & Molec. Microbial Path. (3 cr.)
- Career or skills elective (3 cr.)

**Total credits: 13**

*Please see Emphasis Requirements at [https://foodscience.cals.cornell.edu/](https://foodscience.cals.cornell.edu/) for courses that fulfill these categories.*