

## FOOD SCIENCE & INDUSTRY FOUR-YEAR PLAN

**Iowa State University Catalog, 2007-09**

Department of Food Science and Human Nutrition

First Year			
Fall Semester		Spring Semester	
FS HN 101, Food and the Consumer	3	FS HN 167, Introduction to Human Nutrition	3
FS HN 110, Orientation	1	CHEM 164 or 178, General Chemistry	3
CHEM 163 or 177, General Chemistry	4	BIOL 212, Principles of Biology II	3
CHEM 163L or 177L, General Chemistry Lab.	1	MATH 160, Survey of Calculus	4
BIOL 211, Principles of Biology I	3	ECON 101, Principles of Microeconomics	3
ENGL 150, Critical Thinking & Communication	3	Total credits:	16
LIB 160, Library	0.5		
Total credits:	15.5		

Second Year			
Fall Semester		Spring Semester	
CHEM 231, Elementary Organic Chemistry	3	BBMB 301, Survey of Biochemistry	3
CHEM 231L, Organic Chemistry Lab.	1	STAT 101 or 104, Statistics	3-4
PHYS 106, The Physics of Common Experience	4	TSM 115, Solving Technical Problems	3
ENGL 250, WOVE Composition	3	MICRO 201 or 302, Microbiology	2-3
FS HN 203, Contemporary Issues in FSHN	1	MICRO 201 or 302L, Microbiology Laboratory	1
FS HN 272, Basic Principles of Food Processing	3	SP CM 212 or COMST 214, Public Speaking	3
Total credits:	15	Total credits:	15-17

Third Year			
Fall Semester		Spring Semester	
FS HN 311, Food Chemistry	4	FS HN 351, Unit Operations in Food Process.	3
FS HN 420, Food Microbiology	3	FS HN 403, Food Laws...Regulatory Process	2
FS HN 421, Food Microbiology Laboratory	3	JL MC 205, 220, or 347, Communication	3
Business course	3	Humanities course	3
Humanities/social science (CHS) or ENV S (CAg)	2-3	FS HN 342, World Food Issues	3
Total credits:	15-16	Total credits:	14

Fourth Year			
Fall Semester		Spring Semester	
FS HN 406, Sensory Evaluation of Food	3	FS HN 405, Food Quality Assurance	3
FS HN 411, Food Ingredients...Formulations	2	FS HN 410, Food Analysis	3
FS HN 471, Food Processing	3	FS HN 412, Food Product Development	4
FS HN 472, Food Processing Laboratory	2	FS HN 480, Professional Seminar in FSHN	1
Business course	3	Humanities (CHS) or Int'l Perspectives (CAg)	3
U.S. Diversity course, if not already completed*	3	Total credits:	14
Total credits:	16		

\*Choose elective courses as needed to total  $\geq 120.5$  credits.

*Note: This sequence is only an example. The number of credits taken each semester should be based on the individual student's situation. Factors that may affect credit hours per semester include student ability, employment, health, activities, and grade point considerations. Updated December 2007.*