

FOOD SCIENCE: FOOD SCIENCE AND TECHNOLOGY OPTION

Approved by the Institute of Food Technologists

FOUR-YEAR PLAN

Iowa State University Catalog, 2017-2018

Department of Food Science and Human Nutrition

First Year			
Fall Semester		Spring Semester	
FS HN 110, Professional/Educational Preparation	1	FS HN 101, Food and the Consumer	3
CHEM 177, General Chemistry I	4	FS HN 167, Introduction to Human Nutrition	3
CHEM 177L, General Chemistry Laboratory I	1	CHEM 178, General Chemistry II	3
BIOL 211, Principles of Biology I	3	BIOL 212, Principles of Biology II	3
ENGL 150, Critical Thinking & Communication	3	MATH 166 or 182, Calculus course	<u>4</u>
LIB 160, Library	1	Total credits:	16
MATH 165 or 181, Calculus course	<u>4</u>		
Total credits:	17		

Second Year			
Fall Semester		Spring Semester	
CHEM 331, Organic Chemistry I	3	CHEM 332, Organic Chemistry II	3
CHEM 331L, Organic Chemistry Laboratory I	1	FS HN 203, Contemporary Issues in FSHN	1
PHYS 111, General Physics	5	PHYS 112, General Physics	5
ENGL 250, WOVE Composition	3	MICRO 302, Biology of Microorganisms	3
STAT 101, 104, or 105 Statistics course	<u>3-4</u>	MICRO 302L, Microbiology Laboratory	1
Total credits:	15-16	Elective	<u>2</u>
		Total credits:	15

Third Year			
Fall Semester		Spring Semester	
BBMB 301, Survey of Biochemistry	3	FS HN 351, Intro. Food Engineering Concepts**	3
FS HN 311, Food Chemistry*	3	FS HN 403, Food Laws, Regulations**	2
FS HN 311L, Food Chemistry Laboratory*	1	FS HN 405, Food Quality Assurance**	3
FS HN 420, Food Microbiology*	3	FS HN 421, Food Microbiology Laboratory**	3
SP CM 212, Fundamentals of Public Speaking	3	ECON 101, Principles of Microeconomics	<u>3</u>
Humanities course	<u>3</u>	Total credits:	14
Total credits:	16		

Summer: Food science internship experience (FS HN 491B option for elective credits)

Fourth Year			
Fall Semester		Spring Semester	
FS HN 406, Sensory Evaluation of Food*	3	FS HN 342, World Food Issues	3
FS HN 410, Food Analysis*	3	FS HN 412, Food Product Development**	3
FS HN 411, Food Ingredient Interactions & Form.	2	FS HN 472, Food Processing II**	3
FS HN 471, Food Processing I*	3	FS HN 480, Professional Communication in FSHN	1
Humanities/social sci. (H Sci) or ENV S (AgLS)	2-3	U.S. Diversity (if not already taken) or elective	<u>3</u>
Humanities (H Sci) or elective (AgLS)	<u>1-3</u>	Total credits:	13
Total credits:	14-17		

Choose elective courses to total ≥ 120 credits.

* **Fall-only course offering**, ** **Spring-only course offering**. Planned course offerings may change, and students need to check the online Schedule of Classes each term to confirm course offerings: <http://classes.iastate.edu/>.

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 November 2016