

B.Sc. in Food Science (Business Option)

Year 1

Course No.	Course Name	Credit Hours
AGRI 1600	Introduction to Agrifood Systems	3
BIOL 1020	Biology 1: Principles and Themes	3
BIOL 1030	Biology 2: Biological Diversity, Function and Interactions	3
CHEM 1100	Introductory Chemistry 1: Atomic and Molecular Structure and Energetics	3
CHEM 1110	Introductory Chemistry 2: Interaction, Reactivity, and Chemical Properties	3
or CHEM 1130 ¹	or Introduction to Organic Chemistry	
ECON 1010	Introduction to Microeconomic Principles	3
ECON 1020	Introduction to Macroeconomic Principles	3
HNSC 1200	Food: Facts and Fallacies	3
MATH 1300 ²	Vector Geometry and Linear Algebra	3
or MATH 1210 ²	or Techniques of Classical and Linear Algebra	
MATH 1524 ³	Mathematics for Management and Social Sciences	3
or MATH 1500 ³	or Introduction to Calculus	
or MATH 1510 ³	or Applied Calculus 1	
Total Credit Hours		30

Year 2

Course No.	Course Name	Credit Hours
ABIZ 1000	Introduction to Agribusiness Management	3
ACC 1100	Introductory Financial Accounting	3
AGRI 2030	Technical Communications	3
AGRI 2400 ⁴	Experimental Methods in Agricultural and Food Sciences	3
CHEM 2730/ MBIO 2730 ⁵	Elements of Biochemistry 1	3
CHEM 2740 ⁶	Introduction to the Biochemistry Laboratory	3
FOOD 2500	Food Chemistry	3
HNSC 1210	Nutrition for Health and Changing Lifestyles	3
HRIR 2440	Human Resource Management	3
or ABIZ 2620 ⁷	or Agricultural Human Resource Management	
Free Elective ⁸		3
Total Credit Hours		30

Year 3

Course No.	Course Name	Credit Hours
ABIZ 2510 ⁹	Introduction to Agricultural and Food Marketing	3
ECON 2010	Microeconomic Theory 1	3
ECON 2020	Macroeconomic Theory 1	3
FOOD 3010	Food Process 1	3
FOOD 4150	Food Microbiology 1	3
FOOD 4160	Food Analysis 1	3

Note: Any discrepancies between this document and the Academic Calendar, the Academic Calendar takes precedent.

FOOD 4500	Food Safety and Regulations	3
MKT 2210 ⁹	Fundamentals of Marketing	3
Free Electives ⁸		6
Total Credit Hours		30

Year 4

Course No.	Course Name	Credit Hours
ABIZ 3510	Economics of Food Policy	3
FOOD 4100	Current Issues in Food and Human Nutrition	3
FOOD 4200	Quality Control in Foods	3
FOOD 4510	Food Product Development	3
Restricted Elective (Group 2) ⁹		3
Free Electives ⁸		15
Total Credit Hours		30

Notes:

- CHEM 2100 (Organic Chemistry 1: Foundations of Organic Chemistry) can be substituted for CHEM 1130 (Introduction to Organic Chemistry).
- Students are recommended to take one of MATH 1300 or MATH 1210 however may also substitute MATH 1220 to meet the requirement.
- Students are recommended to take one of MATH 1500 or MATH 1510 or MATH 1524 however may also substitute MATH 1230 to meet the requirement.
- STAT 2000 (Basic Statistical Analysis 2) can be substituted for AGRI 2400 (Experimental Methods in Agricultural and Food Sciences).
- Under required courses, students can take either CHEM 2730/MBIO 2730 (Elements of Biochemistry 1) or CHEM 2700/MBIO 2700 (Biochemistry I: Biomolecules and an Introduction to Metabolic Energy).
- Under required courses, students can take either CHEM 2740 (Introduction to the Biochemistry Laboratory) or CHEM 2720 (Principles and Practices of the Modern Biochemistry Laboratory).
- ABIZ 2620 (Agricultural Human Resource Management) can be substituted for HRIR 2440 (Human Resource Management).
- There are 24 credit hours of Free Electives required for the Food Science program. Students may apply for the [Cooperative Education Program](#). Two work terms are required to graduate with Co-op designation. Co-op courses (3 credit hours each) are used towards Free Electives.
- There are 9 credit hours of Restricted Electives required for the Food Science, business option. Students must complete:

Restricted Electives	Credit Hours
Group 1 – Marketing: (2 courses built into progression charts)	6
ABIZ 2510	Introduction to Agricultural and Food Marketing
MKT 2210	Fundamentals of Marketing
Group 2 – General: choose <u>one course</u> from the following:	3
FOOD 1000	Food Safety, Today and Tomorrow

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FOOD 3160*	Frozen Dairy Products
FOOD 3170*	Cheese and Fermented Milk Products
FOOD 3220*	Grains for Food and Beverage
FOOD 3500*	Processing of Animal Food Products
FOOD 4250	Food Analysis 2
FOOD 4260	Water Management in Food Processing
FOOD 4310*	Introduction to HACCP
FOOD 4540	Functional Foods and Nutraceuticals

*These courses are usually offered every 2nd year - planning ahead is important.