Year 1

B.Sc. in Agriculture (Plant Biotechnology)

Course No.	Course Name	Credit Hours
ABIZ 1000	Introduction to Agribusiness Management	3
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
HNSC 1200	Food: Facts and Fallacies	3
or HNSC 1210	or Nutrition for Health and Changing Lifestyles	
MATH 1300 ² or MATH 1210 ² or MATH 1500 ² or MATH 1510 ² or MATH 1524 ²	Vector Geometry and Linear Algebra or Techniques of Classical and Linear Algebra or Introduction to Calculus or Applied Calculus 1 or Mathematics for Management and Social Sciences	3
Free Elective ⁶		3
Total Credit Hours		30

Year 2

Course No.	Course Name	Credit Hours
AGRI 2030	Technical Communications	3
AGRI 2400	Experimental Methods in Agricultural and Food Sciences	3
BIOL 2242	The Flowering Plants	3
BIOL 2520	Cell Biology	3
CHEM 2730/MBIO 2730 ³	Elements of Biochemistry 1	3
CHEM 2740 ⁴	Introduction to the Biochemistry Laboratory	3
CHEM 2750/MBIO 2750 ⁵	Elements of Biochemistry 2	3
PLNT 2520/BIOL 2500	Genetics	3
PLNT 2530	Plant Biotechnology	3
Free Elective ⁶		3
Total Credit Hours		30

Year 3

Course No.	Course Name	Credit Hours
ABIZ 2510	Introduction to Agricultural and Food Marketing	3
AGEC 2370/BIOL 2300	Principles of Ecology	3
PLNT 3400/BIOL 3400	Plant Physiology	3
SOIL 3600	Soils and Landscapes in Our Environment	3
MBIO 1010	Microbiology 1	3

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





PLNT 2500	Crop Production	3
Restricted ⁷ /Free Electives ⁶ /Co-op		12
Total Credit Hours		30

Year 4Course No.Course NameCredit HoursANSC 2500Animal Production3AGRI 4100Current Issues in Agricultural Systems3Restricted⁷/Free Electives⁶/Co-op24Total Credit Hours

Notes:

1. CHEM 2100 (Organic Chemistry 1: Foundations of Organic Chemistry) can be substituted for CHEM 1130 (Introduction to Organic Chemistry).

2. Students are recommended to take one of the MATH courses listed in the program requirements above however may also use either MATH 1220 or MATH 1230 to meet the requirement.

3. 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).

4. 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).

5. Under required courses, students can take either CHEM 2750/MBIO 2750 (Elements of Biochemistry 2) or CHEM 2710/MBIO 2710 (Biochemistry 2: Catabolism, Synthesis, and Information Pathways).

6. There are 21 credit hours of Free Electives required for the Plant Biotechnology program. Students can apply for the <u>Cooperative Education Program</u>. Two work terms are required to graduate with Co-op designation. Co-op courses (3 credit hours each) are used towards Free Electives.

7. There are 21 credit hours of Restricted Electives required in the Plant Biotechnology program. Students must complete:

*This course is usually offered every 2nd year - planning ahead is important.

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