

B.S. Agricultural Sciences
Dairy Science Major (247)
Business Concentration (ASB)

This guide to course selection and sequence is designed to assist students with forward planning. This is only one of many possible sequences depending on students' individual interests and talents. This is not an official listing of degree requirements; those are listed on the corresponding curriculum sheet.

Abbreviations:

AAE - Agricultural and Applied Economics
 BMOLCHEM – Biomolecular Chemistry
 BSE - Biological Systems Engineering
 DS - Dairy Science
 MHR - Management and Human Resources
 OIM - Operations and Information Management

P – Prerequisites
 F - Fall Semester
 S - Spring Semester
 Su - Summer

Credits	Sem	Courses
Semester 1		
3-5	F/S	Math 112 (Algebra) or 114 (Algebra & Trig) [P: Math placement scores]
4-5	F/S	Chem. 103 or 108 - General Chemistry [P: Math 112 or 114 before Chem.]
4	F	Dairy Sci. 101 - Livestock Production
3	F/S	Written communications/ Communications A [P: Placement scores]
3-4	F/S	Humanities elective or Foreign language [P: Placement scores]
17-21		Total
Semester 2		
4-5	F/S	Chem. 103 or 104 or 108 - General Chemistry [P for Chem. 104: Chem. 103]
3-5	F/S	Math 210-Finite Math or Math 211-Calculus [P: Placement]
3	S	Elective, e.g., Dairy Sci. 205 ¹ -Dairy Cattle Selection
3	F/S	Ethnic studies/ Humanities/ International studies/ Social studies elective
3	F/S	Zoology 101 - Animal Biology
16-19		Total
Semester 3		
1	F	Dairy Sci 272 ¹ – Pre-Capstone Seminar
1	F	Dairy Sci 375 ¹ – Special Topics
5	F/S	Chem. 104 or 108 - General Chemistry [P for Chem. 104: Chem. 103]
3	F/S	AAE 215 - Introduction to Agricultural and Applied Economics or Econ 101
4	F	Elective, e. g., Agronomy 100 ¹ - Principles of Crop Production
3	F	Genetics 160- Heredity
17		Total
Semester 4		
2	S	Dairy Sci. 302 ¹ – Dairy Cattle Husbandry
1	S	Dairy Sci 375 ¹ – Special Topics
3	F/S	Spoken communications/ Communications B
3	F/S	Statistics 371 - Applied Statistics for Life Sciences [P: Math 114]
3	F/S	Econ 102, Principles of Macroeconomics [P: AAE 215 or Econ 101]
3	F/S	Ethnic studies/ Humanities/ International studies/ Social studies elective
16		Total
Summer		
1	Su	Elective, e.g., Dairy Sci 375 Mexico Study Tour
Semester 5		
3	F/S	Accounting 300 - Accounting Principles [P: Jr. Standing]
3	F	Bmolchem 314 – Introduction to Human Biochemistry [P: Chem 104 or 108]
3	S	Dairy Sci 434 - Reproductive Physiology [P: DS 101, Zool 101/102 or 151/152]
3	F/S	MHR 300 - Organizational Behavior [P: Jr. standing]
3	F/S	Econ 102 – Principles of Macroeconomics
3	F/S	Ethnic studies/humanities/international studies/social studies elective

**B.S. Agricultural Sciences
Dairy Science Major (247)
Business Concentration (ASB)**

<u>Credits</u>	<u>Sem</u>	<u>Courses</u>
Semester 6		
3	S	AAE 320 ¹ – Farming Systems Management [P: AAAE 215]
3	F	Dairy Sci. 311 - Comparative Animal Nutrition [P: Bmolchem 314]
1	F	Dairy Sci. 313 - Animal Feeds and Diet Formulation [P: DS 311]
2	S	Dairy Sci. 361- Intro to Animal and Veterinary Genetics [P: Genetics and Statistics]
2	S	Dairy Sci 362 or 363-Vet. Genetics or Animal Breeding [P: DS361]
3	S	Dairy Sci. 433 - Dairy Herd Management [P: Dairy Sci. 101]
3		<u>Electives</u>
14-17		Total
Summer		
1-3	F/S/Su	Dairy Science 399 – Internship in any CALS Department [P: soph., junior, or senior standing].
Semester 7		
3	F	AAE 419 ¹ , Agricultural Finance [P: AAE 320]
2	F	Dairy Sci. 305 - Lactation [P: Biochem 501 or Bmolchem 314]
2	F	Dairy Sci 414 – Ruminant Nutritional [P: DS 311 & 313]
1	F	Dairy Sci 690 - Proseminar [P: Sr. standing]
3	F/S	Finance 300 - Intro. to Finance [P: Jr. st., AAE 215, Stat., Accounting 300]
3	S	Elective, e. g., BSE 210 ¹ - Livestock Housing / Waste Management
4		<u>Electives</u> e.g. Dairy Sci 699
18		Total
Semester 8		
3	S	Dairy Sci. 535 - Dairy Management Practicum [P: DS361, 433, 434]
3	F/S	Marketing 300 - Marketing Management [P: Jr. standing and AAE 215] <u>OR</u>
	S	AAE 322, Commodity Markets [P: AAE 215]
9		<u>Electives</u> e.g. Dairy Sci 468 or Dairy Sci 699
15		Total

Footnote:

¹Recommended elective - not a required course, but may meet a general requirement

Recommended electives

<u>Credits</u>	<u>Sem</u>	<u>Courses</u>
4	F	Agronomy 100, Principles and Practices of Crop Production
3	F	Agronomy 302, Forage Management and Utilization [P: Jr., Agron. 100]
3	F	AAE 323, Cooperatives [P: Jr. standing]
3	S	AAE 336, Agricultural and Natural Resources Law [P: Jr. standing]
3	F	AAE 420, Production Economics [P: Econ 301]
	F/S/Su	Dairy Sci. 299, Independent Study
3	F	Dairy Sci. 370, Livstck Prod. & Health in Agric. Developmnt [P: DS 101]
1	S	Dairy Sci 375 – Agr in Emerging Economics: Dairying in Mexico Seminar
1	Su	Dairy Sci 375 – Mexico Study Tour [P: DS 375 Spring Seminar]
2	S	Dairy Sci. 468, Environmental Management of Livestock Operations
	F/S/Su	Dairy Sci. 699, Special Problems
3	F/S	MHR 305, Human Resource Management [P: Jr. standing]
3	F/S	MHR 422, Small Business Management/Entrepreneurship; [P: Acct I S 100 & 211, Econ 101 & 102]
3	F/Su	OIM 350, Management of Service & Manufacturing Operations[P: Stat.]

3 F/Su OIM 351, Princ. & Tech. of Quality Management [P: MHR 300, Stat.]
3 F/S/Su Real Estate 306, Real Estate Process [P: Jr. Stand. & Econ. 101]



**EXCELLENCE IN
EDUCATION AND DISCOVERY**