

DAIRY SCIENCE MAJOR WITH DAIRY BUSINESS MANAGEMENT OPTION

Program Curriculum

Code	Title	Credits
Degree Core Requirements		
Many courses in this list have prerequisites. Click on each course for its description and any co- or prerequisites.		
CHEM 1015 & CHEM 1016 or CHEM 1035 & CHEM 1036	Chemistry in Context and Chemistry in Context General Chemistry and General Chemistry	6
ALS 2304	Comparative Animal Physiology and Anatomy ¹	4
ALS 3204	Animal Nutrition and Feeding ¹	3
ALS 3304	Physiology of Reproduction ¹	3
DASC 2474	Dairy Science and Industry ¹	3
DASC 2664	Professional Discourse and Career Development ¹	1
DASC 3474	Dairy Information Systems ¹	3
DASC 4374	Physiology of Lactation ¹	3
DASC 4664	Translating Dairy Science ¹	1
Subtotal		27
Option Required Courses		
Many courses in this list have prerequisites. Click on each course for its description and any co- or prerequisites.		
DASC 4475	Dairy Enterprise Management ¹	3
DASC 4476	Dairy Enterprise Management ¹	3
Select one of the following:		3
DASC/APSC 3134	Animal Agriculture and the Environment ^{1,2}	
DASC 3274	Applied Dairy Cattle Nutrition ^{1,2}	
DASC 4174	Applied Dairy Cattle Genetics ^{1,2}	
Subtotal		9
Dairy Elective Courses		
Many courses in this list have prerequisites. Click on each course for its description and any co- or prerequisites.		
Select at least eight credits from the following:		8
DASC 1464	Dairy Cattle Handling ¹	
DASC 1574	Dairy Science First Year Experience ¹	
DASC 2204	Entrepreneurship in Animal Agriculture ¹	
DASC 2484	Dairy Cattle Evaluation ¹	
DASC/APSC 3134	Animal Agriculture and the Environment ^{1,2}	
DASC 3274	Applied Dairy Cattle Nutrition ^{1,2}	
DASC 4174	Applied Dairy Cattle Genetics ^{1,2}	
DASC 4274	Dairy Ration Formulation ¹	
DASC/APSC 4304	Principles and Practices of Bovine Reproduction ¹	
DASC 4384	Mammary Immunology ¹	
DASC 4474	Advanced Dairy Management Evaluation ¹	
DASC 4964	Field Study ^{1,3,4}	

or DASC 497 Independent Study or DASC 499 Undergraduate Research	
Subtotal	8
Option Business Requirements	
Many courses in this list have prerequisites. Click on each course for its description and any co- or prerequisites.	
Select at least nine credits from the following that have not been used to satisfy Pathway requirements:	9
AAEC	Any
ACIS	Any
ECON	Any
FIN	Any
MGT	Any
MKTG	Any
Option Restricted Electives ⁴	
Many courses in this list have prerequisites. Click on each course for its description and any co- or prerequisites.	
Select at least 12 credits from the following:	12
Any courses not already used to fulfill other degree requirements.	
AAEC	Any
ACIS	Any
ALS	Any
APSC	Any
BCHM	Any
BIOL	Any
BMVS	With advisor approval
BSE	Any
CHEM	Any
COMM	Any
CS	Any
CSES	Any
DASC	Any
ECON	Any
ENT	Any
FIW	Any
FOR	Any
FST	Any
HNFE	Any
HORT	Any
MATH	Any
MGT	Any
MKTG	Any
PHYS	Any
SPAN	Any
STAT	Any
Subtotal	21
Free Electives	
Select credits needed to complete 120 credits	8
Subtotal	8
Pathways to General Education	
Pathways Concept 1 - Discourse	

ENGL 1105	First-Year Writing (Pathway 1f (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G01F))	3
ENGL 1106	First-Year Writing (Pathway 1f (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G01F))	3
Select three credits in Pathway 1a (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G01A)		3
<i>Pathways Concept 2 - Critical Thinking in the Humanities</i>		
Select six credits in Pathway 2 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G02)		6
<i>Pathways Concept 3 - Reasoning in the Social Sciences</i>		
AAEC 1005	Economics of the Food and Fiber System	3
or ECON 2005	Principles of Economics	
AAEC 1006	Economics of the Food and Fiber System	3
or ECON 2006	Principles of Economics	
<i>Pathways Concept 4 - Reasoning in the Natural Sciences</i>		
BIOL 1105	Principles of Biology	4
& BIOL 1115	and Principles of Biology Laboratory	
BIOL 1106	Principles of Biology	4
& BIOL 1116	and Principles of Biology Laboratory	
<i>Pathways Concept 5 - Quantitative and Computational Thinking</i>		
Select one of the following:		3
MATH 1014	Precalculus with Transcendental Functions	
MATH 1025	Elementary Calculus	
MATH 1225	Calculus of a Single Variable	
Select one of the following:		3
STAT 2004	Introductory Statistics (Pathway 5f (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G05F))	
STAT 3005	Statistical Methods	
STAT 3615	Biological Statistics	
ALS 3104	Animal Breeding and Genetics (Pathway 5a (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G05A)) ¹	3
<i>Pathways Concept 6 - Critique and Practice in Design and the Arts</i>		
Select three credits in Pathway 6a (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G06A)		3
Select three credits in Pathway 6d (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G06D)		3
<i>Pathways Concept 7 - Critical Analysis of Identity and Equity in the United States</i>		
Select three credits in Pathway 7 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G07)		3
Students may have 3 more credits of free electives by choosing a course that doublecounts for Pathways 7 and Pathways 2, Pathways 3, or Pathways 6.		
Subtotal		47
Total Credits		120

⁴ Courses from the list of approved Option Restricted Electives cannot be double counted for Pathways to General Education, Dairy Science Common Degree Core, Option Dairy Requirements, Dairy Electives, or Option Business Requirements.

1. After completion of 30 Virginia Tech semester credits: 3 semester credits of DASC courses
2. After completion of 36 semester credits, including credits completed at Virginia Tech, transfer credits, advanced placement & standing, credit by exam, and course withdrawal: 12 semester credits in any area of the Pathways to General Education
3. After completion of 72 semester credits, including credits completed at Virginia Tech, transfer credits, advanced placement & standing, credit by exam, and course withdrawal: 24 semester credits in any area of the Pathways to General Education, 6 semester credits of DASC courses; at least 9 semester credits of in-major courses
4. After 96 semester credits: In-major GPA of at least 2.00, Overall GPA of at least 2.00

Graduation Requirements

A 2.00 minimum overall and in-major GPA is required for graduation. Minimum DASC Credits Required for Graduation: 20. Total Credits Required for Graduation: 120.

Foreign Language Requirements

Four credits of accelerated foreign language or two semesters of a single foreign language are required unless 2 units of a single foreign language are completed in high school. These credits do not count toward graduation requirements.

¹ Courses used for calculation of in-major GPA requirement.

² These courses (DASC/APSC 3134, DASC 3274, DASC 4174) can be used to meet Option requirements or count toward Dairy Electives, but not both.

³ A maximum of 3 credits may be used from a combination of DASC 4964, 4974, and 4994.