

DAIRY SCIENCE MAJOR WITH DUAL EMPHASIS OPTION

Code	Title	Credits
Degree Core Requirements		
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
Dairy Elective Courses		
Select at least nine credits of the following:		9
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	
DASC 4474	Advanced Dairy Management Evaluation ¹	
DASC 4475	Dairy Enterprise Management ¹	
DASC 4476	Dairy Enterprise Management ¹	
DASC 4974	^{1,3}	
or DASC 4994 Undergraduate Research		
Option Minor Requirements		
Must complete approved minor or double major course requirements in any department (including at least 18 hours from that department) OR complete an approved Pathways Minor.		18
Option Restricted Electives ³		
Select at least eight credits of the following:		8
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	
HORT	Any	
MATH	Any	
MGT	Any	
MKTG	Any	
PHYS	Any	
SPAN	Any	
STAT	Any	
Subtotal		35
Free Electives		
Select credits needed to complete 120 credits		11
Subtotal		11
Pathways to General Education		
<i>Pathways Concept 1 - Discourse</i>		
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 & BIOL 1115	Principles of Biology and Principles of Biology Laboratory	4
BIOL 1106 & BIOL 1116	Principles of Biology and Principles of Biology Laboratory	4
<i>Pathways Concept 5 - Quantitative and Computational Thinking</i>		
MATH 1014	Precalculus with Transcendental Functions	3
or MATH 1025	Elementary Calculus	
or MATH 1225	Calculus of a Single Variable	
STAT 2004	Introductory Statistics (Pathway 5f (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G05F))	3
or STAT 3005	Statistical Methods	
or 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
Subtotal		47
Total Credits		120

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

² A maximum of 3 credits may be used from a combination of DASC 4964 and 4994.

³ 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.

Notes:

Minimum DASC Credits Required for Graduation: 20

Total Credits Required for Graduation: 120

2.00 minimum overall and in-major GPAs are required for graduation.

Foreign Language

Student must have completed 2 years of High School Foreign Language or 6 credits of University Foreign Language. Credits do not count towards graduation requirements.

Satisfactory Progress Toward Degree

1. After completion of 30 Virginia Tech semester credits: 3 semester credits of DASC courses
2. After completion of 36 semester credits¹: 12 semester credits in any area of the Pathways to General Education
3. After completion of 72 semester credits¹: 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

¹ Includes credits completed at Virginia Tech, transfer credits, advanced placement & standing, credit by exam, and course withdrawal