APPROVED
COMMISSION ON UNDERGRADUATE
STUDIES AND POLICIES
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DASC: DUAL College of Agriculture & Life Sciences

Bachelor of Science

Dairy Science (DASC) Major

Dual Emphasis (DUAL) Option

Checksheet for Students Graduating in calendar year **2022** and for student Date of Entry under UG Catalog **2020-2021**

Pathways to General Education and CALS Requirements [47 credits]

Concept 1 (9 credits)

1f _	Found	dationa	l Discourse

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ENGL 1105	First Year Writing	[3]	
ENGL 1106	First Year Writing	[3]	

1a - Advanced/Applied Discourse

- 11				
ENGL 3764	Technical Writing (Pre: 1106 or 1204 or COMM 1016)	[3]		
Qualifying unlisted courses may be substituted				

Concept 2 – Critical Thinking in the Humanities (6 credits)

Odlicept 2	Official Till	inking in	imamice	100	Carts		
						[3]
						[3]

Concept 3 – Reasoning in the Social Sciences (6 credits)

TO THE PLANT OF THE PROPERTY O	ig in the decial deletions (decidents)	
AAEC 1005	Economics of the Food and Fiber System	[3]
or	or	
ECON 2005	Principles of Economics	
AAEC 1006	Economics of the Food and Fiber System	[3]
or	or	
ECON 2006	Principles of Economics (Pre: 2005)	

Concept 4 – Reasoning in the Natural Sciences (8 credits)

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BIOL 1105		Principles of Biology	[3] [1]
BIOL 1115		Principles of Biology Lab	
Or		or	
BIOL 1005		General Biology	
BIOL 1015		General Biology Lab	
BIOL 1106		Principles of Biology	[3] [1]
BIOL 1116		Principles of Biology Lab	
Or		or	
BIOL 1006		General Biology	
BIOL 1016		General Biology Lab	

Concept 5 (9 credits)

5f – Foundational Quantitative and Computational Thinking

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MATH 1014	Precalculus with Transcendental Functions (3 credits)	[3]
or	or	
MATH 1025	Elementary Calculus (3 credits)	
or	or	
MATH 1225	Calculus of a Single Variable (4 credits)	
STAT 2004	Introductory Statistics Pre: MATH 1014 or MATH 1025	[3]
	or MATH 1225 or MATH 1524 or MATH 1525	

5a – Advanced/Applied Quantitative and Computational Thinking

	a galantalanta anta garripalantalan itmining	
ALS 3104 ¹	Animal Breeding and Genetics PRE: BIOL 1105, (STAT	
	2004 or STAT 3005 or STAT 3615), (APSC 1454 or	[3]
	DASC 2474 or DASC 2484) (3 credits)	

^{1 &}quot;in major" GPA courses indicated

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Checksheet for Students Graduating in calendar year **2022** and for student Date of Entry under UG Catalog **2020-2021**

	Conce	pt 6 ((6 credits)
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6a – Critique Prac	ice in the Arts	
		[3]
6d - Critique and I	Practice in Design	
		[3]
		·

Concept 7 – Critical Analysis of Identity and Equity in the United States (3 credits)

Dairy Science Common Degree Core [27 credits] Fall Spring

Chemistry in Context	[3]	
Chemistry in Context		[3]
General Chemistry	[3]	
General Chemistry		[3]
Animal Physiology and Anatomy	[4]	
Animal Nutrition and Feeding	[3]	
Physiology of Reproduction	[3]	
Dairy Science and Industry		[3]
Prof Discourse & Career	[1]	
Development		
Dairy Information Systems	[3]	
Physiology of Lactation		[3]
Translating Dairy Science	[1]	
	Chemistry in Context General Chemistry General Chemistry Animal Physiology and Anatomy Animal Nutrition and Feeding Physiology of Reproduction Dairy Science and Industry Prof Discourse & Career Development Dairy Information Systems Physiology of Lactation	Chemistry in Context General Chemistry General Chemistry Animal Physiology and Anatomy Animal Nutrition and Feeding Physiology of Reproduction Dairy Science and Industry Prof Discourse & Career Development Dairy Information Systems [3]

TOTAL GENERAL REQUIREMENT CREDITS

Satisfactory Progress Toward Degree

- A. After completion of 30 Virginia Tech semester credits: 3 semester credits of DASC courses
- B. After completion of 36 semester credits¹: 12 semester credits in any area of the Pathways to General Education
- C. 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
- D. After 96 semester credits: In-major GPA of at least 2.00, Overall GPA of at least 2.00

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

Prerequisite: Some courses listed on this checksheet may have prerequisites; please consult the University Course Catalog or check with your advisor.

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

2 "in major" GPA courses indicated

Student must have completed 2 years of High School Foreign Language <u>OR</u> 6 credits of University Foreign Language. Credits do not count towards graduation requirements.

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DASC: DUAL

College of Agriculture & Life Sciences Department of Dairy Science Bachelor of Science in Dairy Science

Dual Emphasis Option

Checksheet for Students Graduating in CY 2022 and Date of Entry under UG Catalog 2020-21

Dairy electives [Choose minimum 9 credits		raii	Spring
DACS 1464 ¹	Dairy Cattle Handling	[1]	
DASC 1574 ¹	Dairy Science First Year Experience	[1]	
DASC 2204 ¹ (PRE: AAEC 1005)	Entrepreneurship in Animal Agriculture	[3]	
DASC 2484 ¹	Dairy Cattle Evaluation		[2]
DASC/APSC 3134 ^{1,2}	Animal Agriculture and the Environment		[3]
DASC 32741 (CO: ALS 3204)	Applied Dairy Cattle Nutrition	[3]	
DASC 41741 (PRE: ALS 3104)	Applied Dairy Cattle Genetics		[3]
DASC 4274 ¹	Dairy Ration Formulation	[1]	
DASC/APSC 4304 ^{1,2} (PRE: ALS 2304)	Bovine Reproduction Practices	[2]	
DASC 43841 (PRE: ALS 2304, ENGL 1106)	Mammary Immunology (taught in even years)		[3]
DASC 4474 ¹ (PRE: 3474, ALS 3104, ALS 3204, ALS 3304. CO: 4475)	Advanced Dairy Management Evaluation		[2]
DASC 44751 (PRE: DASC 2474)	Dairy Enterprise Management		[3]
DASC 4476 ¹ (PRE: 3474, (4475 OR AAEC 3454))	Dairy Enterprise Management	[3]	
DASC 4974 ¹ or 4994 ¹	Independent study or Undergraduate research (maximum of 3 credits)	[]	[]
	mum] BSE, CHEM, COMM, CS, CSES, DASC, ECON, ENT TAT, and BMVS courses (with advisor approval).	, FIW, F	OR, FST,
		[]	[]
		[]	[]
		[]	[]
Free Electives [Number needed to complete	Minimum Total Option Credits e120 credits1:		35
The second promise needed to demplot		[]	[]
		1	
		[]	1 1
	MINIMUM DASC CREDITS REQUIRED FOR (ATION 20

TOTAL CREDITS REQUIRED FOR GRADUATION 120

[&]quot;in major" GPA courses indicated

² Cross-listed courses (DASC/APSC 3134, DASC/APSC 4304) can be used to meet Option requirements or Option Minor requirements but not both.