

Virginia Polytechnic Institute and State University College of Agriculture & Life Sciences Department of Agricultural, Leadership, & Community Education

Bachelor of Science Agricultural Sciences (AGSC) Major Teaching and Learning (TL) Option

For students graduating in calendar year 2022 and for student date of entry under UG Catalog 2020-2021

Part I. Un	niversity Pathways General Education Requirements - 44 credit here Discourse – 9 credit hours required	ours
Concept 1.	1F – ENGL 1105 First-Year Writing	3
	1F – ENGL 1106 First-Year Writing	3
	1A – **ALCE 2414 Identity and Inclusion in Agriculture	3 3 3
Concept 2:	Critical Thinking in the Humanities – 6 credit hours required	
		3
		3
Concept 3:	Reasoning in the Social Sciences – 6 credit hours required	
	AAEC 1005 Economics of Food & Fiber Systems	3
	AAEC 1006 Economics of Food & Fiber Systems	3
Concept 4:	Reasoning in the Natural Sciences – 8 credit hours required	
	BIOL 1105 Principles of Biology, BIOL 1115 Principles of Biology Laboratory	3, 1 3, 1
	BIOL 1106 Principles of Biology, BIOL 1116 Principles of Biology Laboratory OR	3, 1
	CHEM 1015 Chemistry in Context, CHEM 1025 Chemistry in Context Lab CHEM 1016 Chemistry in Context, CHEM 1026 Chemistry in Context Lab	
	<u>OR</u>	
	GEOS 1004 Introduction to Earth Science, GEOS 1104 Introduction to Earth Science GEOS 1024 Earth Resources, Soc, & Env, GEOS 1124 Earth Res, Soc, & Env Lab	
Concept 5:	Quantitative and computational thinking – 9 credit hours required	
	5F – MATH 1014 Precalculus with Transcendental Functions	3
	5F – *STAT 2004 Introductory Statistics	3 3 3
	5A – FREC 3004 Environmental Informatics	3
Concept 6:	Critique and Practice in Design and the Arts - 6 credit hours required	
	6D –	3
	6A –	3
Concept 7:	Critical Analysis of Identity and Equity in the United States	
	+*ALCE 2414 Identity and Inclusion in Agriculture	3
	egree Core Requirements – 19 credit hours	
AL	LS 1234 CALS First Year Seminar LCE 3014 Leadership Effectiveness for Professionals in Agricultural Organizations	1
+A	LCE 3014 Leadership Effectiveness for Professionals in Agricultural Organizations	3
	LCE 3004 Educational Programs in Agriculture & Life Sciences	3
	LCE 3624 Communicating Agriculture in Writing	3
	LCE 3634 Communicating Agriculture in Speaking	3
	ALCE 4034 Methods of Planning Educational Programs for Agriculture LCE 4044 Agricultural Sciences Seminar	3
Part III. C	option in Teaching and Learning Requirements – 36 credit hours	
	sciplinary Core Courses – 27 credit hours	
	LCE 2964 Field Study	3
	LCE 4024 Managing Agricultural Supervised Occupational Experience Programs	3
	ALCE 4244 Teaching and Training Methods in Agricultural and Life Sciences	3



AGRICULTURAL SCIENCES - TEACHING & LEARNING OPTION GRADUATION CHECKSHEET (continued)

*ALCE 4754 Internship in Education *ALCE 4064 Ag Mechanical Lab Management **ALCE 4234 Curriculum for Career and Occupation *ALCE 4884 Youth Program Management BSE 2094 Introduction to Metal Fabrication *BSE 2484 Engine and Power Train Technology EDCI 3144 Educating Exceptional Learners across		3 3 3 1 3 3
B. Restricted Electives – 9 credit hours ¹		
Part IV. Area of Specialization – 18 credit hour	re ²	
		
Part V. Free Electives – 3 credit hours (or balar	nce to 120 credit hours)3	
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GRADUATION REQUIREMENTS: *Some courses listed on this checksheet may have prerequisites; ¹AGSC advisor must approve content area elective courses and the of Agricultural, Leadership, and Community Education undergraded Agricultural and Life Science (ALS), Agricultural and Applied Econ (BCHM), Biological Systems Engineering (BSE), Crops, Soils, and Environmental Science (ENSC), Entomology (ENT), Fisheries and (FREC), Human Nutrition Food and Exercise (HFNE), Horticulture Weed Science (PPWS). Students seeking teacher licensure need Agricultural Economics and Management (AAEC), 2) Animal Science Forestry/Wildlife Management (FIW/FREC), 5) Horticulture (HORT)	he student must file a content area uate office. Students must choose nomics (AAEC), Animal and Poultr d Environmental Science (CSES), d Wildlife (FIW), Food Science and e (HORT), Leadership and Social of I to have three credit-hours in the fince (APSC, DASC), 3) Agricultura	a electives form with the Department courses from the following areas: ry Science (APSC), Biochemistry Dairy Science (DASC), d Technology (FST), Forestry Change (LDRS), Plant Pathology and following content areas: 1) al Mechanics (ALCE, BSE), 4)
² AGSC advisor must approve area of specialization courses and to f Agricultural, Leadership, and Community Education undergradurequirement, or complete at least 15 hours at the 3000 level or hig (AAEC: ABMN, AEMN, ENMN, or ITMN), Animal and Poultry Scie Soil Environmental Sciences (CSES), Dairy Science (DASC), Env (APEQ), Food Science and Technology (FST), Forestry (FORS), I Social Change (ILRM), Turfgrass Management (TRFM), Urban Fowelland Science (WESC), or Wood Science & Forest Products (Wethe following areas for their area of specialization: Agricultural and Animal and Poultry Science (APSC), Biochemistry (BCHM), Biolog Science (CSES), Dairy Science (DASC), Environmental Science (and Technology (FST), Forestry (FOR), Human Nutrition Food and Change (LDRS), Plant Pathology and Weed Science (PPWS).	the student must file an area of spudete office. Students may either cligher. Approved minors include: Agence (APSC), Civic Agriculture anvironmental Science (ENSC), Ento Horticulture (HORT), International prestry (URBF), Viticulture (VITI), VOOD). If a minor is not selected, d Life Science (ALS), Agricultural agical Systems Engineering (BSE), (ENSC), Entomology (ENT), Fisher	pecialization form with the Department hoose an approved minor to fulfill this gricultural and Applied Economics and Food Systems (CAFS), Crop and prology (ENT), Equine Production I Agriculture (IAG), Leadership and Watershed Management (WSM), students must choose courses from and Applied Economics (AAEC), Crops, Soils, and Environmental eries and Wildlife (FIW), Food Science
³ Students seeking teacher licensure must dual enroll in	program in the School of E	Education at Virginia Tech.

PREREQUISITES: Some courses required for this major have prerequisites. Please refer to the Undergraduate Course Catalog or consult your advisor for information about prerequisites.

FOREIGN LANGUAGE: Requires 2 years of high school study in the same language (equivalent to 1105).

* IN-MAJOR GPA: Indicates in-major courses for purposes of calculating in-major GPA.

Has foreign language requirement been completed? (Yes/No) _

Courses taken at Virginia Tech to complete the foreign language requirement will not count toward graduation.

SATISFACTORY PROGRESS: By the end of the academic year in which the student has attempted 72 hours (including transfer, advanced placement, advanced standing and credit by examination), "satisfactory progress" will consist of 1) GPA of at least 2.0; 2) at least 24 credits that apply to the University Core, and 3) 9 credit credits of departmental requirements.

MINIMUM OVERALL GPA REQUIRED FOR GRADUATION: 2.00 MINIMUM IN-MAJOR GPA REQUIRED FOR GRADUATION: 2.00