

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

	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
Concept 2:	Critical Thinking in the Humanities – 6 credit hours required	_
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		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	2 1
	BIOL 1105 Principles of Biology, BIOL 1115 Principles of Biology Laboratory BIOL 1106 Principles of Biology, BIOL 1116 Principles of Biology Laboratory	3, 1
	<u>OR</u>	J, 1
	CHEM 1015 Chemistry in Context, CHEM 1025 Chemistry in Context Lab CHEM 1016 Chemistry in Context, CHEM 1026 Chemistry in Context Lab OR	
	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 3 3
	5F – *STAT 2004 Introductory Statistics	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	
	LS 1234 CALS First Year Seminar	1
	LCE 3014 Leadership Effectiveness for Professionals in Agricultural Organizations	
	LCE 3004 Educational Programs in Agriculture & Life Sciences LCE 3624 Communicating Agriculture in Writing	3
	LCE 3634 Communicating Agriculture in Speaking	3
	ALCE 4034 Methods of Planning Educational Programs for Agriculture	3
	LCE 4044 Agricultural Sciences Seminar	3
Part III. C	Option in Teaching and Learning Requirements – 36 credit hours	
	sciplinary Core Courses – 27 credit hours	
+ A	LCE 2964 Field Study	3
+ A	LCE 4024 Managing Agricultural Supervised Occupational Experience Programs	2
+*	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 Occupational Ed *ALCE 4884 Youth Program Management BSE 2094 Introduction to Metal Fabrication *BSE 2484 Engine and Power Train Technology EDCI 3144 Educating Exceptional Learners across the L		3 3 3 1 3 3		
В	Restricted Electives – 9 credit hours¹				
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Part IV	. Area of Specialization – 18 credit hours ²	-			
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Part V	Free Electives – 3 credit hours (or balance to	120 credit hours) ³			
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GRADU	ATION REQUIREMENTS:				
AGSC a of Agricultur (BCHM), Environm (FREC), I Weed Sc Agricultur Forestry/AGSC a of Agricul Environm (AAEC: ASoil Environm (APEQ), Social Crowelland: Science (And Techange (Change)	urses listed on this checksheet may have prerequisites; please divisor must approve content area elective courses and the stude tural, Leadership, and Community Education undergraduate official and Life Science (ALS), Agricultural and Applied Economics (Biological Systems Engineering (BSE), Crops, Soils, and Envirogental Science (ENSC), Entomology (ENT), Fisheries and Wildlife Human Nutrition Food and Exercise (HFNE), Horticulture (HORT ence (PPWS). Students seeking teacher licensure need to have all Economics and Management (AAEC), 2) Animal Science (APWildlife Management (FIW/FREC), 5) Horticulture (HORT), and divisor must approve area of specialization courses and the studitural, Leadership, and Community Education undergraduate officient, or complete at least 15 hours at the 3000 level or higher. Application, and Poultry Science (Alconmental Sciences (CSES), Dairy Science (DASC), Environmental Science and Technology (FST), Forestry (FORS), Horticulting areas for their area of specialization: Agricultural and Life Science (WESC), or Wood Science & Forest Products (WOOD). In gareas for their area of specialization: Agricultural and Life Science (WESC), Forestry (FOR), Biochemistry (BCHM), Biological Sycoses), Dairy Science (DASC), Environmental Science (ENSC), nology (FST), Forestry (FOR), Human Nutrition Food and Exercipate), Plant Pathology and Weed Science (PPWS).	ent must file a content area elece. Students must choose cou AAEC), Animal and Poultry Simmental Science (CSES), Dai e (FIW), Food Science and Telectory, Leadership and Social Character three credit-hours in the follows C, DASC), 3) Agricultural Meloscial Character three credit-hours in the follows C, DASC), 3) Agricultural Melosciences (CSES). The must file an area of special ce. Students may either choose proved minors include: Agriculture and Footal Science (ENSC), Entomoliture (HORT), International Agruma (HORT), Viticulture (VITI), Wat If a minor is not selected, studience (ALS), Agricultural and stems Engineering (BSE), Crost, Entomology (ENT), Fisheries ise (HFNE), Horticulture (HORT)	dectives form with the Department curses from the following areas: Science (APSC), Biochemistry cury Science (DASC), Biochemistry cury Science (DASC), Biochemistry cury Science (DASC), Biochemistry cury Science (DASC), Biochemistry cury Biochemistry (Biochemistry Cange (LDRS), Plant Pathology and Dwing content areas: 1) Cury Biochemics (ALCE, BSE), 4) dechanics (CAFS), Crop and Cology (ENT), Equine Production priculture (IAG), Leadership and tershed Management (WSM), dents must choose courses from a Applied Economics (AAEC), cops, Soils, and Environmental and Wildlife (FIW), Food Science RT), Leadership and Social		
⁺ IN-MAJ	OR GPA: Indicates in-major courses for purposes of calculating	in-major GPA.	-		
	UISITES: Some courses required for this major have prerequisit our advisor for information about prerequisites.	es. Please refer to the Under	graduate Course Catalog or		
FOREIGN LANGUAGE: Requires 2 years of high school study in the same language (equivalent to 1105). 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