

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

Bachelor of Science in Agricultural Sciences
GRADUATION CHECKSHEET
Requirements for Students Graduating in Calendar Year 2019

Part I. University and College CLE Requirements - 36 credit hours

Area 1: Writing and Discourse -6 credit hours required for the core		
ENGL 1105 First-Year Writing	3	
ENGL 1106 First-Year Writing	3	
Area 2: Ideas, Cultural Traditions and Values-6 credit hours required for the core		
LDRS 1015 Exploring Citizen Leadership: Contexts and Competencies	3	
	3	
Area 3: Society and Human Behavior-6 credit hours required for the core		
AAEC 1005 Economics of Food & Fiber Systems	3	
AAEC 1006 Economics of Food & Fiber Systems	3	
Area 4: Scientific Reasoning and Discovery-8 credit hours required for the core		
BIOL 1105 Principles of Biology, BIOL 1115 Principles of Biology Laboratory	3	
BIOL 1106 Principles of Biology, BIOL 1116 Principles of Biology Laboratory	3	
OR		
CHEM 1015 Introduction to Chemistry, CHEM 1025 Introduction to Chemistry Lab		
CHEM 1016 Introduction to Chemistry, CHEM 1026 Introduction to Chemistry Lab		
OR		
GEOS 1004 Physical Geology, GEOS 1104 Physical Geology Lab		
GEOS 1024 Resources Geology, GEOS 1124 Resources Geology Lab		
Area 5: Quantitative and Symbolic Reasoning-6 credit hours required for the core		
MATH 1014 Precalculus with Transcendental Functions	3	
STAT 2004 Introductory Statistics	3	
Area 6: Creativity and Aesthetic Experience-1 credit hour required for the core		
	1	
Area 7: Critical Issues in a Global Context-3 credit hours required for the core		
	3	

Part II. Degree Core Requirements – 25 credit hours

ALS 1234 CALS First Year Seminar		1	
*ALCE 3004 Educational Programs in Agriculture & Life Sciences	3		
*ALCE 3014 Leadership Effectiveness for Professionals in Agricultural Organizations	3		
*ALCE 3624 Communicating Agriculture in Writing	3		
*ALCE 3634 Communicating Agriculture in Speaking	3		
*ALCE 4014 Introduction to Cooperative Extension	3		
*ALCE 4034 Methods of Planning Educational Programs for Agriculture	3		
*ALCE 4044 Agricultural Sciences Seminar	3		
<u>Choose 3 credits from:</u>			
*LDRS 2014 Principles of Peer Leadership, or *ALCE/LDRS 3954 Study Abroad,	3		
or *ALCE 4054 Internship in Coop Extension, or *ALCE/LDRS 4754 Internship,			
or *ALCE/LDRS 4964 Field Study, or *ALCE/LDRS 4994 Undergraduate Research			

Part III. Degree Option – 30 credit hours*

*Students will choose one of the two following options.

A. Teaching and Learning in Agriculture Option

<u>Option-Specific Requirements (14 credits):</u>			
*ALCE 4024 Managing Agricultural Supervised Occupational Experience Programs		2	
*ALCE 4244 Teaching and Training Methods in Agricultural and Life Sciences	3		
*ALCE 4884 Youth Program Management	3		
BSE 2294 Animal Structures and Environment	3		
EDCI 3144 Educating Exceptional Learners across the Lifespan	3		

AGRICULTURAL SCIENCES GRADUATION CHECKSHEET (continued)

Option-Restricted Electives – 16 credit hours¹:

OR

B. Community Leadership and Development Option

Option-Specific Requirements (12 credits):

AAEC 3324 Environment and Sustainable Development Economics	3 _____
*ALCE 4304 Community Education and Development	3 _____
*LDRS 3104 The Dynamics of Leadership	3 _____
*LDRS 3304 Elements of Team Leadership	3 _____

Option Restricted Electives (Choose 18 credits from):

*ALS 2204 Intro to Civic Agriculture, or *ALS 4204 Concepts in Community Food Systems ² , or *LDRS 1XXX & higher, or PHIL 1XXX & higher, or PSYC 2XXX or higher, or SOC 2XXX & higher, or AAEC 3XXX & higher, or PSCI 3XXX & higher, or *ALCE 4XXX, or MGT 4XXX, or UAP 3354 Introduction to Environmental Policy and Planning, or UAP 4264 Environmental Ethics and Policy ³ , or UAP 4374 Land Use and Environment: Planning and Policy, or UAP/GEOG/SOC 4764 International Development and Policy Planning.	3 _____, 3 _____, 3 _____, 3 _____, 3 _____, 3 _____
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Part IV. Area of Specialization – 18 credit hours⁴

Part V. Free Electives – 11 credit hours (or balance to 120 credit hours)

GRADUATION REQUIREMENTS:

¹AGSC advisor must approve content area elective courses and the student must file a *content area electives form* with the Department of Agricultural, Leadership, and Community Education undergraduate office. Students must choose courses from the following areas: Agricultural and Life Science (ALS), Agricultural and Applied Economics (AAEC), Animal and Poultry Science (APSC), Biochemistry (BCHM), Biological Systems Engineering (BSE), Crops, Soils, and Environmental Science (CSES), Dairy Science (DASC), Environmental Science (ENSC), Entomology (ENT), Fisheries and Wildlife (FIW), Food Science and Technology (FST), Forestry (FOR), Human Nutrition Food and Exercise (HFNE), Horticulture (HORT), Leadership and Social Change (LDRS), Plant Pathology and Weed Science (PPWS).

²Prerequisite includes enrollment in the Civic Agriculture and Food Systems (CAFS) minor.

³Prerequisites include UAP/PSCI 3344 Global Environmental Issues: Interdisciplinary, and UAP 3354 Introduction to Environmental Policy and Planning.

⁴AGSC advisor must approve area of specialization courses and the student must file an *area of specialization form* with the Department of Agricultural, Leadership, and Community Education undergraduate office. Students may either choose an approved minor to fulfill this requirement, or complete at least 15 hours at the 3000 level or higher. Approved minors include: Agricultural and Applied Economics (AAEC: ABMN, AEMN, ENMN, or ITMN), Animal and Poultry Science (APSC), Civic Agriculture and Food Systems (CAFS), Crop and Soil Environmental Sciences (CSES), Dairy Science (DASC), Environmental Science (ENSC), Entomology (ENT), Equine Production (APEQ), Food Science and Technology (FST), Forestry (FORS), Horticulture (HORT), International Agriculture (IAG), Leadership and Social Change (ILRM), Turfgrass Management (TRFM), Urban Forestry (URBF), Watershed Management (WSM), Wetland Science (WESC), or Wood Science & Forest Products (WOOD). If a minor is not selected, students must choose courses from the following areas for their area of specialization: Agricultural and Life Science (ALS), Agricultural and Applied Economics (AAEC), Animal and Poultry Science (APSC), Biochemistry (BCHM), Biological Systems Engineering (BSE), Crops, Soils, and Environmental Science (CSES), Dairy Science (DASC), Environmental Science (ENSC), Entomology (ENT), Fisheries and Wildlife (FIW), Food Science and Technology (FST), Forestry (FOR), Human Nutrition Food and Exercise (HFNE), Horticulture (HORT), Leadership and Social Change (LDRS), Plant Pathology and Weed Science (PPWS).

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

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).

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