

Virginia Polytechnic Institute and State University
Department of Agricultural, Leadership, & Community Education

Bachelor of Science in Agricultural Sciences

Option: Teaching and Learning in Agriculture - Sample Plan of Study

Freshman Year

<u>Semester One</u>		<u>Hours</u>	<u>Semester Two</u>		<u>Hours</u>
ALS 1234 – CALS First Year Experience		1	AAEC 1006 – Economics of Food & Fiber Systems		3
AAEC 1005 – Economics Food & Fiber Systems		3	+ALCE 3004 – Educ. Program Ag. & Life Sciences		3
BIOL 1105 – Principles of Biology*		3	BIOL 1106 – Principles of Biology*		3
BIOL 1115 – Principles of Biology Laboratory*		1	BIOL 1116 – Principles of Biology Laboratory*		1
ENGL 1105 – First-Year Writing		3	ENGL 1106 – First-Year Writing		3
+LDRS 1015 – Exploring Citizen Leadership		3	MATH 1014 – Precalculus with Tran. Functions		3
Total Hours		14	Total Hours		16

* *Note.* Biology and Biology lab may be substituted with a Chemistry or Geology sequence of courses.

Sophomore Year

<u>Semester Three</u>		<u>Hours</u>	<u>Semester Four</u>		<u>Hours</u>
+ALCE 2414 – Identity and Inclusion in Agric.		3	+ALCE 3634 – Communicating Agric. in Speaking		3
Area of Specialization Course		3	Area of Specialization Course		3
Concept 2 Elective		3	Concept 6D Elective		3
Restricted Elective		3	+LDRS 2964 Field Study		3
STAT 2004 – Introductory Statistics		3	Restricted Elective		3
Total Hours		15	Total Hours		15

Junior Year

<u>Semester Five</u>		<u>Hours</u>	<u>Semester Six</u>		<u>Hours</u>
+ALCE 3014 – Leadership Effective for Ag		3	+ALCE 3624 – Communicating Agric. in Writing		3
+ALCE 4024 – Managing Ag SOE Programs		2	+ALCE 4064 – Ag Mech Lab Management		3
Area of Specialization Course		3	+ALCE 4244 – Teaching and Training Methods		3
BSE 2484 – Engine and Power Train Technology		3	Area of Specialization Course		3
FREC 3004 – Environmental Informatics		3	BSE 2094 – Intro to Metal Fabrication		1
			Concept 6A Elective		3
Total Hours		14	Total Hours		16

Senior Year

<u>Semester Seven</u>		<u>Hours</u>	<u>Semester Eight</u>		<u>Hours</u>
+ALCE 4034 – Methods Planning Educ. Programs		3	+ALCE 4044 – Agricultural Sciences Seminar		3
+ALCE 4884 – Youth Program Management		3	+ALCE 4234 – Curriculum for Career & Occ Educ.		3
EDCI 3144 – Educating Exceptional Learners		3	+ALCE 4754 – Internship in Education		3
Area of Specialization Course		3	Area of Specialization Course		3
Restricted Elective		3	Free Elective		3
Total Hours		15	Total Hours		15

TOTAL ALL YEARS 120

Note. Check Transfer Guide <https://www.alce.vt.edu/student-info/undergraduate/agsciences/agsc-course.html> for approved courses completed at community colleges.

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

See ALCE advisor for more information to gain licensure for agricultural teacher certification.

Area of Specialization can be an approved minor: 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), Viticulture (VITI), Watershed Management (WSM), Wetland Science (WESC), or Wood Science & Forest Products (WOOD).

If a minor is not selected for an Area of Specialization, students must work with advisor to choose courses (15 of 18 credit hours must be at 3000-level or higher) 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.