

BS in Agricultural Education with Emphasis in Teacher Certification

Degree Program Description

Agricultural Education students combine their passion for agriculture and their talents working with people to lead and teach the next generation of agriculturalists. Our graduates lead people and agricultural organizations in wide variety of roles. Students completing a degree in Agricultural Education, Teacher Certification are well prepared to teach agriculture, advise an FFA chapter, and supervise SAEP student projects. Our faculty work in partnership with state and national leaders in Agricultural Education/FFA to create authentic, hands-on learning experiences, where students work alongside industry professionals to tackle authentic projects and problems. In addition to agricultural education course requirements, students complete course work in agribusiness management, agricultural sales and marketing, plant sciences, animal sciences, agricultural systems management, natural resources and food science.

Major Program Requirements

Students earning a Bachelor of Science in Agricultural Education are required to complete all University general education (<https://catalog.missouri.edu/academicdegreerequirements/generaleducationrequirements/>), University graduation (<https://catalog.missouri.edu/academicdegreerequirements/universityrequirements/>), and degree requirements, including selected foundational courses (<https://catalog.missouri.edu/collegeofagriculturefoodandnaturalresources/agriculturaleducation/bs-agricultural-education/>), which may fulfill some University general education requirements.

Teacher Certification Emphasis

The Teacher Certification emphasis prepares students to meet state teacher licensure requirements to teach agriculture in Missouri public schools at the secondary and adult levels. In addition to courses in Agricultural Education and the College of Education, the curriculum includes 45 hours of coursework in agriculture, food and natural resources. The capstone experience involves a semester-long teaching internship in a selected secondary agriculture program.

Emphasis core requirements		31
AG_ED_LD 1000	Orientation to Agricultural Education and Leadership	1
AG_ED_LD 2270	Leadership Development in Youth Organizations	3
AG_ED_LD 2271	Early Field Experience	1
AG_ED_LD 4001	Topics in Agricultural Education and Leadership	3
AG_ED_LD 4310	Intracurricular Program Management in Agricultural Education	3
AG_ED_LD 4320	Methods of Teaching I	3
AG_ED_LD 4321	Field Experience I	1
AG_ED_LD 4330	Methods of Teaching II	3
AG_ED_LD 4331	Field Experience II	1

AG_ED_LD 4087	Internship Seminar in Agricultural Education and Leadership	3
AG_ED_LD 4995	Student Teaching Internship in Agriculture	9
College of Education		12
ESC_PS 2010	Inquiry Into Learning I	3
LTC 2040	Inquiring into Schools, Community and Society I	3
SPC_ED 4020	Teaching the Exceptional Learner	3
LTC 4560	Reading and Writing in the Content Areas	3
Agribusiness Management		6
ABM 3223	Relationship Selling: Creating Value for Customers	3
Agribusiness Management Elective		3
Animal Sciences		6-8
AN_SCI 1165	Biology of Animal Production I with Laboratory	3-4
or AN_SCI 1164	Biology of Animal Production I	
AN_SCI 1175	Biology of Animal Production II with Lab	3-4
or AN_SCI 1174	Biology of Animal Production II	
Plant Sciences		3
PLNT_SCI 2110	Who Runs the World? Plants.	3
or SOIL 2100	Introduction to Soils	
or PLNT_SCI 3270	Forage Crops	
or PLNT_SCI 3275	Grain Crops	
Agricultural Systems Management		6
AG_S_TCH 1020	Introduction to Agricultural Systems Technology	3
AG_ED_LD 3320	Metal Fabrication and Laboratory Management	3
Horticulture		7
PLNT_SCI 2075	Environmental Horticulture	3
PLNT_SCI 3230W	Plant Propagation - Writing Intensive	3
or PLNT_SCI 3260	Greenhouse Management	
or PLNT_SCI 4365	Greenhouse Crops Production	
Electives		18
CAFNR electives		6-8
General Electives		9

Teacher Education Courses

Students proceed through three phases as they complete the baccalaureate program. Each phase includes training in technology as well as clinical experience. University general education and content requirements are completed each semester in addition to the required program area courses. A student admitted to a professional program (Phase II) must maintain the standards met at the time of admission.

The Director of Teacher Certification will monitor student GPAs each semester. Students must maintain the following minimum GPA (UM and overall) to maintain in good standing.

Phases	Minimum cumulative GPA (UM and overall)	Minimum professional (education) GPA	Minimum ag Content GPA
Phase I	2.000	2.000	2.000

Phase II	2.750	2.500	3.000
Phase III	2.750	2.500	3.000

Students in Phase II or III must maintain the minimum GPA for their phase to be considered in good standing. If a student in Phase II or III is determined to not be in good standing, the Director of Teacher Certification will change the student to Phase I status and will notify the student in writing. Students may apply to be readmitted to Phase II upon meeting all the minimum GPAs required of that level.

Phase I

Students are automatically enrolled into Phase I upon entering the degree program. This phase provides students with an immersion into the discipline and culture of teaching and learning before focusing on a teaching specialty. Phase I coursework includes the following courses: ESC_PS 2010, LTC 2040, AG_ED_LD 2270, AG_ED_LD 2271, and AG_ED_LD 4310.

Phase II

This phase occurs over a three-semester sequence and focuses increasingly on a chosen teaching emphasis and on interdisciplinary teaching. Experiences in this phase focus on instructional strategies, human development, classroom and behavior management and educational measurement. This phase provides students with experience in the methods of teaching in a specific subject area as well as emerging problems and practices within the field of education.

- Application to Phase II is required. Students become eligible for consideration for admittance to Phase II after meeting the following criteria:
- Current enrollment in the Agricultural Education program
- Minimum 2.750 UM GPA of record and overall GPA (on a 4.000 scale)
- Content GPA of 2.500 (on a 4.000 scale)
- Professional (education) GPA of 3.000 (on a 4.000 scale)
- ENGLSH 1000 with a "C" range grade or higher
- MATH 1100 with a "C" range grade or higher
- Demonstration of competence of Phase I learning markers as demonstrated by satisfactory completion of Phase I courses (ESC_PS 2010, LTC 2040, AG_ED_LD 2270, AG_ED_LD 2271, AG_ED_LD 4310, and with a grade of "S" (satisfactory), or "C-" (2.00) or higher in each course
- Demonstrated competence of Phase I mid-preparation benchmarks (as documented by Phase I instructors)
- Possession of characteristics associated with effective performance in a professional role at the level(s) and in the major(s) selected
- Completion of application for progression

Decisions regarding Phase II admission are made by the Director of Teacher Certification. Meeting minimum requirements for admission to Phase II does not guarantee admission to Phase II. Students may be allowed to take Phase II courses if conditionally admitted into Phase II by faculty. Faculty will consider conditional Phase II admits on a case-by-case basis and can re-approve conditional status so long as students submit an approved plan for meeting Phase II requirements to the College of Education each semester. However, conditionally admitted students will not be fully admitted until they meet all listed requirements. Students are not eligible for Phase III admittance until fully admitted into Phase II.

Phase III

Phase III occurs during the last year, including student placement in a public school district for the entire semester, for approximately 16 weeks (12 credit hours).

Application for Phase III is required. To qualify for the teaching internship, applicants must meet the following requirements:

- Admission to Phase III in the program area
- Successful completion of all Phase II requirements
- Demonstration of competence of Phase II learning markers as demonstrated by satisfactory completion of Phase II courses (AG_ED_LD 4320, AG_ED_LD 4321, AG_ED_LD 4330, AG_ED_LD 4331, SPC_ED 4020, AG_ED_LD 4001, LTC 4560) with a grade of "S" (satisfactory), or "C-" (2.00) or higher in each course.
- A minimum of 90 completed credit hours
- Completion of at least the preceding semester in residence
- A minimum 2.750 UM GPA of record and an overall GPA of 2.750 (on a 4.000 scale)
- Content GPA of 2.500 (on a 4.000 scale)
- Professional (education) GPA of 3.000 (on a 4.000 scale)
- Completion of specific prerequisite professional education and subject area course requirements for the level at which the teaching internship is to be accomplished

Teaching internship placements are available in several districts across the State of Missouri. Applications are accepted approximately a year preceding internship. More information concerning student teaching internships may be obtained from John Tummons, Director of Teacher Certification, 123 Gentry Hall.

Teacher Certification

Licensures

Completion of the bachelor's degree and any additional requirements for certification must be completed before the graduate is eligible for an Initial Professional Certificate from the Department of Elementary and Secondary Education in the State of Missouri.

- Recommendation for initial certification after graduation requires:
- Passing score on the Content Area Exam (and official scores submitted to the University of Missouri)
- Passing score on the Missouri Pre-Service Teacher Assessment
- Official transcripts with the degree posted submitted to Office of Assessment in 2 Hill Hall.
- Submission of an IPC application from the DESE web application website (<https://apps.dese.mo.gov/weblogin/login.aspx>) to MU
- The Department of Elementary and Secondary Education also requires that students seeking additional certification in other teaching subjects take the Content Area Exam in those additional subjects in order to be considered a Highly Qualified Teacher

A student recommended for teacher certification must meet the following criteria:

- Cumulative UM GPA of record of 2.750
- Overall GPA of 2.750 for all college course work completed
- Cumulative GPA of 3.000 in all content area course work
- 2.000 in each professional education course with overall 3.000 GPA on all professional education course work

- Satisfactory score on the Missouri Pre-Service Teacher Assessment
- Satisfactory score on the Content Area Exam required by the State of Missouri
- Satisfactory completion of minimum required professional and technical agriculture coursework
- An official copy of the student's transcript with baccalaureate degree posted submitted to the Office of Assessment in 2 Hill Hall.
- Complete online application for an Initial Professional Certificate through the Department of Elementary and Secondary Education (DESE) web application

Semester Plan

Please visit with an advisor actual plans may vary based on course choices where options are available.

First Year			
Fall	CR	Spring	CR
AG_ED_LD 1000		1 AN_SCI 1175	4
AG_ED_LD 2250		3 BIO_SC 1010	3
ABM 1041 [^]		3 BIO_SC 1020	2
AN_SCI 1165		4 PLNT_SCI 2075	3
ENGLISH 1000 [*]		3 MATH 1100 [*]	3
		14	15
Second Year			
Fall	CR	Spring	CR
AG_ED_LD 2270		3 ABM 3223	3
AG_ED_LD 2271		1 AGSC_COM 2220	3
AG_S_TCH 1020 [^]		3 HIST 1100	3
PLNT_SCI 2110		3 LTC 2040	3
ESC_PS 2010		3 Physical/Mathematical elective or CHEM 1100	3
		13	15
Third Year			
Fall	CR	Spring	CR
AGSC_COM 3210W		3 AG_ED_LD 4320	3
AG_ED_LD 4310		3 AG_ED_LD 4321 [^]	1
ABM 3260		3 AFNR 2191	3
PLNT_SCI 3260		4 BIOCHM 2110	3
SPC_ED 4020 [^]		3 CAFNR minor course LTC 4560	3
		16	16
Fourth Year			
Fall	CR	Spring	CR
AG_ED_LD 3320		3 AG_ED_LD 4087	3
AG_ED_LD 4330 [^]		3 AG_ED_LD 4995 [^]	9
AG_ED_LD 4331		1 AG_ED_LD 4001	3
AN_SCI 3275		3	
CAFNR Minor course		6	
		16	15
Total Credits: 120			

* Denotes University General Education Requirements

[^] Denotes Degree Program Requirements