



MISSOURI DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION
OFFICE OF EDUCATOR QUALITY – EDUCATOR PREPARATION

AGRICULTURE EDUCATION, GRADES 9-12

EDUCATOR PREPARATION PROGRAM NAME MISSOURI STATE UNIVERSITY	EDUCATOR PREPARATION PROGRAM CODE 119119
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INSTRUCTIONS

Please complete Educator Preparation Program (EPP) Name & EPP Code above.

Certification Requirements

- Course Number – List the course number(s) for the course(s) or groups of competencies that align with the specific section of the requirements. It is possible to have more than one course or group listed.
- Course Title – List the course title(s) for the course(s) or groups of competencies that align with the specific section of the requirements. It is possible to have more than one course or group listed.
- Semester Hours – List the number of semester hours for each specific section. It is possible to use decimals (to the nearest tenth) to indicate partial use of a course to meet a requirement. The total number of semester hours must meet or exceed the minimum required number of semester hours.

Email the completed cover sheet, curriculum matrix, and advising/program information to DESE.MoSPETransition@dese.mo.gov on or before the date established in the Transition Plan.

QUESTIONS: Contact Educator Preparation, 573-751-1668 or DESE.MoSPETransition@dese.mo.gov

A. Professional Requirements (Minimum of 26 semester hours)

1. Content Planning and Delivery

	Course Number	Course Title	Semester Hours
a. Curriculum and Instructional Planning	SEC302	General Methods of Instruction in the Middle and Secondary Schools	1(3)
b. Instructional Strategies and Techniques in Content Area Specialty	AGE558/658	Teaching of Agriculture	2(3)
	AGE578/678	Methods of Teaching Agricultural Management	0(2)
	AGE588/688	Methods of Teaching Agricultural Laboratory Management	0(2)
c. Assessment, Student Data, and Data-Based Decision-Making	SFR486	Management and Assessment in the Middle and Secondary Classroom	1.5(3)
d. Strategies for Content Literacy	RDG474 or RDG710	Reading and Writing in the Content Fields, Content Area Literacy	0(3)
e. Critical Thinking and Problem Solving	SEC302	General Methods of Instruction in the Middle and Secondary Schools	.5(3)
	EDC350	School and Society	0(3)
f. English Language Learning	RDG474 or RDG710	Reading and Writing in the Content Fields, Content Area Literacy	0(3)
	RDG640 or	Analysis and Correction of Difficulties in Literacy	0(3)
	RDG574/624	Analysis and Correction of Difficulties in Adolescent Literacy	0(3)

2. Individual Student Needs

	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	PSY360 or PSY710	Educational Psychology, Psychology of Education	1.5(3)
b. Psychology/Education of the Exceptional Child	SPE340 or SPE715	Educational Alternative for Exceptional Students, Foundations in Special Education	2-3
c. Differentiated Learning	SEC302	General Methods of Instruction in the Middle and Secondary Schools	.5(3)
	RDG474 or RDG710	Reading and Writing in the Content Fields, Content Area Literacy	0(3)
d. Classroom Management	SFR486	Management and Assessment in the Middle and Secondary Classroom	1.5(3)
e. Cultural Diversity	EDC345	Introduction to Multicultural Education and Diversity	3
f. Educational Psychology	PSY360 or PSY710	Educational Psychology, Psychology of Education	1.5(3)

3. Schools and the Teaching Profession

	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	RDG474 or RDG710	Reading and Writing in the Content Fields, Content Area Literacy	0(3)
b. Legal/Ethical Aspects of Teaching	EDC350	School and Society	3
	AGE493	Supervised Teaching	0(6)
	AGE494	Supervised Teaching	0(6)

4. Secondary Literacy (Minimum of 6 semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	RDG474 or RDG710	Reading and Writing in the Content Fields, Content Area Literacy	3
b. Instructional Interventions for Students with Reading Deficits	RDG640 or	Analysis and Correction of Difficulties in Literacy	3
	RDG574/624	Analysis and Correction of Difficulties in Adolescent Literacy	3
Professional Requirements - Total Semester Hours			
B. Field and Clinical Experiences (Minimum of 10 semester hours)			
	Course Number	Course Title	Semester Hours
1. Early Field Experiences (Minimum of 1 semester hour with a minimum of 30 clock hours)	SEC302	General Methods of Instruction in the Middle and Secondary Schools	1(3)
2. Mid-Level Field Experiences (Minimum of 1 semester hour with a minimum of 45 clock hours)	AGE558/658	Teaching of Agriculture	1(3)
3. Culminating Clinical Experiences (Minimum of 8 semester hours with a minimum of 12 weeks in 1 placement)	AGE493	Supervised Teaching	6
	AGE494	Supervised Teaching	6
Field and Clinical Experiences - Total Semester Hours			
Agriculture Content Knowledge Area (Minimum of 53 semester hours)			
A. Agriculture Content Knowledge Area (Minimum of 30 semester hours)			
	Course Number	Course Title	Semester Hours
1. Animal Science (Minimum of 3 semester hours)	AGS101	Animal Science	4
2. Agronomy (Minimum of 3 semester hours)	AGP103	Choose one (1) Plant Science	3
	AGN115	Sustainable Agriculture and the Environment	
3. Agriculture Business (Minimum of 3 semester hours)	AGB334	Marketing Agricultural Products	3
4. Agriculture Economics (Minimum of 3 semester hours)	AGB144	Agriculture Economics I	4
5. Agriculture Mechanics (Minimum of 3 semester hours)	AGE337	Agricultural Mechanics Practices	3
6. Horticulture (Minimum of 3 semester hours)	AGP303	Choose one (1) Suburban Horticulture	3
	AGP333	Landscape Design	
	AGP543	Greenhouse Management	
7. Electives from above (Minimum of 0-12 semester hours)	AGN215	Soils	3
	AGN143	Choose one (1) Introductory Forestry	3
	AGN335	Soil Conservation and Water Management	
	AGR383	Applied Entomology	
	Electives	Electives to reach 30 hours	4
Agriculture Content Knowledge Area - Total Semester Hours			BSED/PB = 30
B. Electives from the following suggested areas: (15 semester hours)			
	Course Number	Course Title	Semester Hours
1. Forestry			
2. Natural Resources			
3. Agriculture Journalism	Chose up to 16 hours AGB114	Choose up to 16 hours Ag Economics	4
4. Integrated Pest Management	AGB314	Legal Aspect of Agriculture	3
	AGB334	Marketing Ag Products/Lab Hrs	3,2
	AGB354	Land Economics	3
	AGB374	Ag Business Management	3
	AGB384	Agricultural Selling	3
	AGB394	Agricultural Industry Study	2
	AGB494	Problems Ag Business	Varied
	AGB514	International AGR Trade	Varied
	AGB534	Production Economics	3
	AGB584	Farm Business Management	3
	AGB614	International AgrTrade	3
	AGB684	Farm Business Management	3
	AGE493	Supervised Teaching-AG	6
	AGE494	Supervised Teaching-AG	6
	AGE498	Problems in Ag Ed	3
	AGE568	Course/Programs Building AG ED	3
	AGE628	AG Ed – Special Topics	3
	AGE668	Course/Programs Building AG ED	Varied
	AGE718	Topics/Ag Education	Varied
	AGE728	Induction Year Teaching I	2
AGE738	Induction Year Teaching II	2	

	AGP300	Wine Appreciation for Customer	1
	AGP303	Suburban Horticulture	3
	AGP333	Landscape Design	3
	AGP353	Turf Science	3
	AGP370	Forage Crops/Animals & Environment	3
	AGP441	Vegetable Production	3
	AGP453	Crop Physiology	3
	AGP496	Indiv Study in Fruit Science	Varied
	AGP543	Greenhouse Management	3
	AGP573	Plant Propagation	3
	AGP575	Plant Breeding and Genetics	2
	AGP576	Plant Breeding/Genetics Lab	1
	AGP585	Weed Ecology and Mgmt	3
	AGP633	Crop Physiology	3
	AGP641	Vegetable Production	3
	AGP643	Plant Propagation	3
	AGP663	Greenhouse Production	3
	AGP670	Forage Crops and Animal Envrn.	3
	AGP675	Plant Breeding and Genetics	2
	AGP676	Plant Breeding/Genetics Lab	1
	AGP685	Weed Ecology and Management	3
	AGP711	Viticulture	3
	AGP730	Adv Topics in Plant Science	Varied
	AGR098	Enrollment Tracking Course-UG	0
	AGR100	Food Security	3
	AGR108	Topics in Agriculture	1
	AGR200	Mini Agriculture	1
	AGR299	Special Topics	Varied
	AGR300	Food/Agricultural Chemistry	3
	AGR320	Writing II - Applied Science	3
	AGR399	Special Topics	Varied
	AGR490	Agronomy/Horticulture Sr. Seminar	1
	AGR499	Internship in Agriculture	Varied
	AGR599	International Study/Agriculture	Varied
	AGR796	Science Internship	Varied
	AGR797	Seminar	1
	AGR798	Research	Varied
	AGR799	Thesis	Varied
	AGS101	Animal Science	Varied
	AGS161	Introduction to Horses	3
	AGS162	Introduction to Riding	1
	AGS163	Intro/Hunt Seat Equestrian	1
	AGS164	Intro/Stock Seat Equestrian	1
	AGS263	Intermediate Hunt Seat Equestrian	1
	AGS264	Intermediate Hunt Seat Equestrian	1
	AGS301	Physiology of Farm Animals	3
	AGS306	Veterinary Science	3
	AGS311	Feeds and Feeding	3
	AGS342	Meat Science and Products	Varied
	AGS362	Riding Instruction	2
	AGS363	Advanced Hunt Seat Equestrian	1
	AGS364	Advance Stock Seat Equestrian	1
	AGS385	Companion Animal Management I	3
	AGS389	Companion Animals in Society	3
	AGS432	Sheep and Goat Science	2
	AGS452	Beef Cattle Production	3
	AGS461	Equine Nutrition & Physiology	2
	AGS492	Problems in Animal Science	Varied
	AGS511/611	Animal Nutrition & Metabolism	3
	AGS661	Equine Nutrition & Physiology	2
	AGS712	Special Topics in Animal Science	Varied

Electives - Total Semester Hours

BSED/PB=16

C. Professional Vocational Education (Minimum of 8 semester hours)

	Course Number	Course Title	Semester Hours
1. Methods of Teaching Vocational Agriculture	AGE558/658	Teaching of Agriculture	0(3)
2. Program Planning	AGE568/668	Course and Program Building in Agriculture Education	1(3)
3. Developing and Supervising Occupational Experience Programs			
a. Ownership (Entrepreneurship)	AGE318	Introduction to Agricultural Education	0(3)
	AGE578/678	Methods of Teaching Agricultural Management	1(3)
b. Placement	AGE318	Introduction to Agricultural Education	0(3)
	AGE578/678	Methods of Teaching Agricultural Management	1(3)
4. Developing and Using Instructional Materials and Teaching Aids	AGE558/658	Teaching of Agriculture	0(3)

5. Supervising Student Organizations	AGE318 AGE568/668	Introduction to Agricultural Education Course and Program Building in Agriculture Education	0(3) 1(3)
6. Teaching Agriculture Mechanics	AGE588/688	Methods of Teaching Agricultural Laboratory Management	2
7. Planning and Conducting Adult Programs for Young and Adult Farmers	AGE568/668 AGE318	Course and Program Building in Agriculture Education Introduction to Agricultural Education	1(3) 1(3)
Professional Vocational Education - Total Semester Hours			BSED/PB = 8

The Department of Elementary and Secondary Education does not discriminate on the basis of race, color, religion, gender, national origin, age, or disability in its programs and activities. Inquiries related to Department programs and to the location of services, activities, and facilities that are accessible by persons with disabilities may be directed to the Jefferson State Office Building, Office of the General Counsel, Coordinator – Civil Rights Compliance (Title VI/Title IX/504/ADA/Age Act), 6th Floor, 205 Jefferson Street, P.O. Box 480, Jefferson City, MO 65102-0480; telephone number 573-526-4757 or TTY 800-735-2966 email civilrights@dese.mo.gov.