



AGRICULTURE EDUCATION, GRADES 9-12

EDUCATOR PREPARATION PROGRAM NAME NOWTHEST MISSOURI STATE UNIVERSITY	EDUCATOR PREPARATION PROGRAM CODE 118118
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INSTRUCTIONS

Please complete Educator Preparation Program (EPP) Name & EPP Code above. The EPP Code may be located at <https://dese.mo.gov/sites/default/files/EPP-Code-Name.pdf>

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	62-218	Designing Integrated Curriculum (Part II)	
b. Instructional Strategies and Techniques in Content Area Specialty	62-215 62-218 03-580	Designing Integrated Curriculum (Part I) Designing Integrated Curriculum (Part II) Methods of Instruction and Assessment in Agricultural Education	3
	03-524	Methods of Instruction and Assessment in Agricultural Science Laboratories	3
c. Assessment, Student Data, and Data-Based Decision-Making	03-580	Methods of Instruction and Assessment in Agricultural Education	
	03-524	Methods of Instruction and Assessment in Agricultural Science Laboratories	
	03-420	Program Planning in Agricultural Education	
d. Strategies for Content Literacy	62-230	Adolescent Literacy	
e. Critical Thinking and Problem Solving	62-118	Teaching is Communication	1
	62-119	Professional Learning Community III	
	62-321	Designing Intervention	
f. English Language Learning	62-117	Inclusive Classrooms and Positive Learning Environments	1.5
	62-118	Teaching is Communication	
	61-569	Multiculturalism in Education	
	62-321	Designing Intervention	
2. Individual Student Needs			
	Course Number (Competency Driven Courses to fulfill this requirement include :)	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	08-322	Adolescent Psychology	2
b. Psychology/Education of the Exceptional Child	62-117	Inclusive Classrooms and Positive Learning Environments	1
	62-118 62-119 62-321	Teaching is Communication Professional Learning Communities III Designing Intervention and Assessment	1
	62-119 03-580	Professional Learning Community III Methods of Instruction and Assessment in Agricultural Education	
c. Differentiated Learning	03-524	Methods of Instruction and Assessment in Agricultural Science Laboratories	
	62-321	Designing Intervention	

d. Classroom Management	62-117 62-118 03-580 03-524	Inclusive Classrooms and Positive Learning Environments Teaching is Communication Methods of Instruction and Assessment in Agricultural Education Methods of Instruction and Assessment in Agricultural Science Laboratories	
e. Cultural Diversity	62-117 62-118 61-569	Inclusive Classrooms and Positive Learning Environments Teaching is Communication Multiculturalism in Education	1.5
f. Educational Psychology	08-299	Educational Psychology	3
3. Schools and the Teaching Profession			
	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	03-320 03-580 03-524 62-117 62-118 62-119	Foundations of Agricultural Education Methods of Instruction and Assessment in Agricultural Education Methods of Instruction and Assessment in Agricultural Science Laboratories Inclusive Classrooms and Positive Learning Environments Teaching is Communication Professional Learning Community III	1
b. Legal/Ethical Aspects of Teaching	03-320 03-580 03-524 62-118 62-119	Foundations of Agricultural Education Methods of Instruction and Assessment in Agricultural Education Methods of Instruction and Assessment in Agricultural Science Laboratories Teaching is Communication Professional Learning Community III	
4. Secondary Literacy (Minimum of six semester hours)			
		Course Title	Semester Hours
a. Reading and Writing in the Content Area	62-119 62-215 62-217 62-230 62-218 62-219	Professional Learning Community III Designing Integrated Curriculum (Part I) Professional Learning Community IV Adolescent Literacy Designing Integrated Curriculum (Part II) Professional Learning Communities V	1 1 1 1 1
b. Instructional Interventions for Students with Reading Deficits	62-322 or 62-323 61-325	Theory and Technique of Literacy Assessment and Intervention Professional Learning Communities VI	1 1
Professional Requirements - Total Semester Hours			25
B. Field and Clinical Experiences (Minimum of ten semester hours)			
	Course Number	Course Title	Semester Hours
1. Early Field Experiences (Minimum of one semester hour with a minimum of 30 clock hours)	62-218 62-215 62-230 03-320	Designing Integrated Curriculum in Middle and Secondary School Designing Integrated Middle and Secondary Curriculum 1 Adolescent Literacy Foundations of Ag Ed	1
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	03-420	Program Planning in Agricultural Education	1
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	61-472	Directed Teaching in Secondary School	8
Field and Clinical Experiences - Total Semester Hours			10
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 three semester hours)	03-150	Animal Science	4

2. Agronomy (Minimum of three semester hours)	03-130	Plant Science	4
3. Agriculture Business (Minimum of three semester hours)	03-304	Farm Management and Record Analysis	3
4. Agriculture Economics (Minimum of three semester hours)	03-102	Introductory Agricultural Economics	3
5. Agriculture Mechanics (Minimum of three semester hours)	03-112	Agricultural Mechanics	4
6. Horticulture (Minimum of three semester hours)	03-380 03-382 03-385 03-387 03-388 03-483 03-485 03-489 03-582 03-583 03-585 03-589	Plant Propagation Woody Landscape Plants Landscape Design Greenhouse Crop Production Greenhouse Management and Materials Fruit and Vegetable Crop Production Landscape Construction Herbaceous Perennials Independent Study in Horticulture Plant Diseases Turfgrass Management Principles of Postharvest Agriculture Problems in Horticulture	3
7. Electives from above (Minimum of zero-12 semester hours)	03199 03396 03302 03305 03307 03308 03309 03404 03407 03408 03409 03502 03503 03504 03505 03508 03509 03598 03312 03419 03510 03518 03519 03429 03529 03296 03393 03498 03590 03232 03238 03292 03330 03332 03336 03432 03434 03437 03438 03440 03442 03443 03444 03445 03448 03449 03530 03534 03536 03540 03543 03549	World Foods Agricultural Advocacy Agricultural Marketing Rural Real Estate Appraisal Farm Business Records Agricultural Data Analysis Applied Futures Marketing Livestock Marketing Agricultural Finance Professional Farm Management Independent Study in Agricultural Economics Agricultural Prices Agricultural Law Futures Trading Agricultural Resource Economics Agriculture Policy Problems in Agricultural Economics Advanced Agricultural Applications of Computers and GPS Agricultural Welding Independent Study in Agricultural Mechanization Techniques in Agricultural Surveying Agricultural Drainage and Irrigation Problems in Agricultural Mechanization Independent Study in Agricultural Education Problems in Agricultural Education Seminar U.S. Agriculture Travel Experience Agriculture Occupations Internship International Agriculture Travel Experience Crop Production Techniques of Crop Scouting Introduction to Agricultural Pesticides Forage Crop Science Soil Microbiology Crop Physiology Soil and Water Conservation Weed Science: Ecology and Control Soil Judging Advanced Crop Production Introduction to Precision Agriculture Practical Field Crops Evaluation Precision Ag Production Precision Ag Service Applied Research in Precision Agriculture Principles of Spray App Technology Independent Study in Agronomy Soil Formation and Classification Plant Breeding Soil Fertility Grain Crops Soil Chemistry: Environmental Quality and Plant Nutrition Problems in Agronomy	9

	03252 03352 03358 03360 03362 03365 03366 03450 03452 03454 03455 03460 03469 03470 03566 03569 03380 03381 03382 03383 03385 03387 03388 03483 03485 03489 03582 03583 03585 03589 03920 03990	Livestock Evaluation Meat Science Livestock Health and Disease Management Principles of Animal Nutrition Anatomy and Physiology of Domestic Animals Artificial Insemination Principles of Animal Breeding Small Ruminant Science Beef Science Swine Science Advanced Livestock Production and Management Advanced Animal Nutrition Independent Study in Animal Science Dairy Science Genetics of Livestock Improvement Problems in Animal Science Plant Propagation Applied Entomology Woody Landscape Plants Landscape Design Greenhouse Crop Production Greenhouse Management and Materials Fruit and Vegetable Crop Production Landscape Construction Herbaceous Perennials Independent Study in Horticulture Plant Diseases Turfgrass Management Principles of Postharvest Agriculture Problems in Horticulture Lower Division Elective in Agriculture– Transfer Upper Division Elective in Agriculture - Transfer	
Agriculture Content Knowledge Area – Total Semester Hours			30
B. Electives from the following suggested areas: (15 semester hours)			
	Course Number	Course Title	Semester Hours
1. Forestry			0
2. Natural Resources	03-234 03-432	Fundamentals of Soil Science Soil and Water Conservation	4 0-3
3. Agriculture Journalism	03-396	Agricultural Advocacy	0-3
4. Integrated Pest Management	03-238 03-292 03-381 03-434	Techniques of Crop Scouting Introduction to Agricultural Pesticides Applied Entomology Weed Science: Ecology and Control	0-11
5.	03199 03396 03302 03305 03307 03308 03309 03404 03407 03408 03409 03502 03503 03504 03505 03508 03509 03598 03312 03419 03510 03518	World Foods Agricultural Advocacy Agricultural Marketing Rural Real Estate Appraisal Farm Business Records Agricultural Data Analysis Applied Futures Marketing Livestock Marketing Agricultural Finance Professional Farm Management Independent Study in Agricultural Economics Agricultural Prices Agricultural Law Futures Trading Agricultural Resource Economics Agriculture Policy Problems in Agricultural Economics Advanced Agricultural Applications of Computers and GPS Agricultural Welding Independent Study in Agricultural Mechanization Techniques in Agricultural Surveying Agricultural Drainage and Irrigation	0-11

	03519 03429 03529 03296 03393 03498 03590 03232 03330 03332 03336 03432 03437 03438 03440 03442 03443 03444 03445 03448 03449 03530 03534	Problems in Agricultural Mechanization Independent Study in Agricultural Education Problems in Agricultural Education Seminar U.S. Agriculture Travel Experience Agriculture Occupations Internship International Agriculture Travel Experience Crop Production Forage Crop Science Soil Microbiology Crop Physiology Soil and Water Conservation Soil Judging Advanced Crop Production Introduction to Precision Agriculture Practical Field Crops Evaluation Precision Ag Production Precision Ag Service Applied Research in Precision Agriculture Principles of Spray App Technology Independent Study in Agronomy Soil Formation and Classification Plant Breeding	
Electives - Total Semester Hours			15
C. Professional Vocational Education (Minimum of eight semester hours)			
	Course Number	Course Title	Semester Hours
1. Methods of Teaching Vocational Agriculture	03-580 or 03-580	Methods in Teaching Agriculture or Methods of Instruction and Assessment in Agricultural Education (name change)	.5
	03-524 or 03-524	Teaching Agricultural Science Laboratories or Methods of Instruction and Assessment in Agricultural Education Laboratories	.5
2. Program Planning	03-420	Program Planning in Agricultural Education	3
3. Developing and Supervising Occupational Experience Programs	03-421	Conducting Supervised Agricultural Experience Programs	1
a. Ownership (Entrepreneurship)	03-421	Conducting Supervised Agricultural Experience Programs	.5
b. Placement	03-421	Conducting Supervised Agricultural Experience Programs	.5
4. Developing and Using Instructional Materials and Teaching Aids	03-580 03-580	Methods in Teaching Agriculture or Methods of Instruction and Assessment in Agricultural Education	.5
	03-524 or 03-524	Teaching Agricultural Science Laboratories or Methods of Instruction and Assessment in Agricultural Education Laboratories	.5
5. Supervising Student Organizations	03-320	Foundations of Agricultural Education	3
6. Teaching Agriculture Mechanics	03-524 or 03-524	Teaching Agricultural Science Laboratories or Methods of Instruction and Assessment in Agricultural Education Laboratories (name change)	1
7. Planning and Conducting Adult Programs for Young and Adult Farmers	03-422 or 03-422	Adult Ed in Agriculture or Community Programming in Agriculture	2
Professional Vocational Education - Total Semester Hours			12

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