



AGRICULTURE EDUCATION, GRADES 9-12 – POST-BACCALAUREATE

EDUCATOR PREPARATION PROGRAM NAME NORTHWEST 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	03-580 or 03-580 03-420	Methods in Teaching Agriculture or Methods of Instruction and Assessment in Agricultural Education Program Planning in Agricultural Education	1
b. Instructional Strategies and Techniques in Content Area Specialty	03-580 or 03-580	Methods in Teaching Agriculture or Methods of Instruction and Assessment in Agricultural Education	1
c. Assessment, Student Data, and Data-Based Decision-Making	03-580 or 03-580	Methods in Teaching Agriculture or Methods of Instruction and Assessment in Agricultural Education	1
	03-420	Program Planning in Agricultural Education	2
d. Strategies for Content Literacy	62-553 or 62-353	Reading in the Secondary School or Reading in the Content Area	
e. Critical Thinking and Problem Solving	61-615	Organizing for Learning	1
	61-617	Organizing for Learning II	1.5
	Or 61-650	Or Improvement of Teaching	.5
f. English Language Learning	61-521 or	Classroom Management Seminar or Improvement of Teaching or Multiculturalism in Education	.5
	61-650 or		
	61-569		
2. Individual Student Needs			
	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	08-322 or 61-614	Adolescent Psychology or Introduction to Teaching	2 or 1
b. Psychology/Education of the Exceptional Child	62-371 or 62-641 or 61-616	Introduction to Special Education or Education of the Exceptional Child or Teaching Strategies	1 or 2 or 2
c. Differentiated Learning	62-371 or	Introduction to Special Education or Education of Exceptional Child or Introduction to Teaching Multiculturalism	.5 or 1 or 1 .75
	62-641 or		
	61-614		
	61-569		
d. Classroom Management	61-520 or	Techniques of Classroom Management and Discipline or Improvement of Teaching or Organizing for Learning AND Organizing for Learning II	1.5 Or .5 or 1 and 1
	61-650 or		
	61-615 AND		
	61-617		

e. Cultural Diversity	61-569	Multiculturalism in Education	1.5
f. Educational Psychology	61-614 OR 08-303 OR 08-299	Introduction to Teaching OR Educational Psychology OR Educational Psychology	1 or 3
3. Schools and the Teaching Profession			
	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	61-520 or 61-650 or 61-615	Techniques of Classroom Management and Discipline or Improvement of Teaching or Organizing for Learning	.5 1
b. Legal/Ethical Aspects of Teaching	61-521 or 61-650 or 61-617	Classroom Management Seminar or Improvement of Teaching or Organizing for Learning II	.5
4. Secondary Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	62-553 OR 62-353	Reading Program in Secondary School OR Teaching Reading in the Content Areas	3
b. Instructional Interventions for Students with Reading Deficits	62-654 Or 62-601 Or 61-649	Analysis and Correction of Reading Difficulties or Literacy-Based Assessment and Analysis or Issues in Education	3
Professional Requirements - Total Semester Hours			26
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)	61-260 or 61-614	Practicum I or Introduction to Teaching	1
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	61-360 or 61-651 or 61-616	Practicum II or Seminar and Practicum in Teaching or Teaching Strategies	1 or 3 or 1
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	61-472 or 61-690	Directed Teaching in k-12 School or Internship in Teaching	8 8
Field and Clinical Experiences - Total Semester Hours			10-13
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

<p>7. Electives from above (Minimum of zero-12 semester hours)</p>	<p>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 03252 03352 03358 03360 03362 03365 03366 03450 03452 03454 03455 03460 03469 03470 03566 03569 03380 03381 03382 03383 03385</p>	<p>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 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</p>	<p>9</p>
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	03387 03388 03483 03485 03489 03582 03583 03585 03589 03920 03990	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
	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 03330 03332 03336 03432 03437 03438 03440 03442 03443 03444 03445 03448 03449 03530 03534	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 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	0-11

	03536 03540 03543 03549 03252 03352 03358 03360 03362 03365 03366 03450 03452 03454 03455 03460 03469 03470 03566 03569 03380 03382 03383 03385 03387 03388 03483 03485 03489 03582 03583 03585 03589 03920 03990	Soil Fertility Grain Crops Soil Chemistry: Environmental Quality and Plant Nutrition Problems in Agronomy 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 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	
5.	03396 03302 03305 03307 03308 03309 03404 03407 03408 03409 03502 03503 03504 03505 03508 03509 03598 03419 03510 03518 03519 03429 03529 03296 03393 03498 03590 03232 03238 03292 03330 03332 03336 03432 03434 03437	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 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	3

	03438 03440 03442 03443 03444 03445 03448 03449 03530 03534 03536 03540 03543 03549 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	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 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	
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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 (name change)	.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 (name change)	.5
	03-524 or 03-524	Teaching Agricultural Science Laboratories or Methods of Instruction and Assessment in Agricultural Education Laboratories (name change)	.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 (name change)	2
Professional Vocational Education - Total Semester Hours			12

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