

Teacher Preparation in Agricultural Education:

Report to the Legislature

Minnesota State Colleges and Universities

February 2016



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Introduction

This report is required by Session Law 2015, Chapter 69, Article 1, Section 4, Subdivision 3 to report progress on the development of a teacher preparation program leading to licensure in agricultural education at Southwest Minnesota State University. The report describes progress on designing the curriculum, the status of initial program approval by the Minnesota Board of Teaching, and an estimate of the number of students to be enrolled when the program is approved and commences.

Background:

Currently, there are 183 approved secondary agriculture programs in Minnesota with 216 teachers serving approximately 21,000 students (2014-2015 enrollment).¹ Agriculture, food and natural resources offer 1,477 courses or 16.4 percent of all career and technical education courses offered in secondary programs. This is the third largest group of CTE course offerings behind business and consumer family science (1,900 and 1,593 courses respectively).²

Progress Report on Program Design and Approval

Dr. Raphael Onyeaghala, dean of the College of Education at Southwest Minnesota State University, reports that curriculum for the teacher preparation in agricultural education was completed in fall 2015. Southwest Minnesota State University submitted a Request for Initial Program approval for an Agriculture Education Teacher Licensure Program in December 2015 and approval is anticipated in March 2016. A copy of the program application is attached as Appendix A.

The Minnesota Board of Teaching has confirmed receipt of the initial program application and it has been assigned a reviewer. When the application evidences compliance to all Board standards, the program application is forwarded to the Board of Teaching with a recommendation for approval. The University hopes to offer the program beginning in fall 2016.

Estimated Enrollment

Southwest Minnesota State University expects to enroll a class of approximately 15 students in the first year and 20 – 25 students in the second year of the program.

¹ Career and Technical Education Approved AFNR Programs, Minnesota Department of Education

² Career and Technical Education Inventory, February 1, 2015, Minnesota Department of Education

Appendix A

Southwest Minnesota State University Requirements for the BS in Agricultural Education (AGED) in Fall Semester 2015 Teaching Licensure (TL) Specialization

A. Professional Secondary Education Sequence	<u>Credits</u>
Courses	<u>Credits</u>
ED 101 – Introduction to Education and Lab	3
ED 102 – Tech: Classroom Applications & Portfolio	2
ED 301 – The Teaching & Learning Process & Lab	3
ED 304 – Professional Development & Classroom Application	1
ED 430 – Reading in the Content Areas	2
PSYC 341 – Child & Adolescent Psychology	3
SPED 290 – Introduction to Special Needs and Lab	3
SOCI 212 – Human Relations....(Counted Under LEP Goal #7)	0
ED 469 – Student Teaching: Grade 5 – 12	12
Total Credits for Professional Secondary Ed Sequence	29
<u>B. Methods Courses in Agricultural Education</u>	<u>Credits</u>
AGED 401 (New Course) - K-12 Methods: Agricultural Education	2
ED 407 - Secondary Methods: Science	3
Total Credits for Methods Courses in Ag Education	5
<u>C. Subtotal of Credits for</u>	<u>Credits</u>
<u>Professional Education and Methods Courses =</u>	34
<u>D. LEP - Core Requirements for Agricultural Education</u>	<u>Credits</u>
<u>Goal 1 – Communications</u>	
ENGL 151 – Academic Writing	4
SPCH 110 – Essentials of Speaking and Listening	3
ENGL 251 – Writing in Professions or PHIL 303 – Ethical Issues in Prof. Life	3
<u>Goal 2 – Critical Thinking</u>	
LEP 100 or PHIL 101	3
<u>Goal 3 – Natural Sciences</u>	
BIOL 100&Lab - Biol in Modern World or BIOL 200&Lab Cell Biology	4

ENVS 180 – Introduction to Environmental Science & Lab	4
Goal 4 – Mathematics and Logical Thinking	
MATH 110 or MATH 115 or MATH 140, 150 or 151	3
Goal 5 – History, Social and Behavioral Sciences	
ECON 201 – Principles of Microeconomics	3
PSYC 101 – General Psychology	3
Goal 6 – Humanities and Fine Arts	
Choose two approved Goal 6 Courses (in different disciplines) <i>from the SMSU Catalog</i>	6
<i>(Consult with Academic Advisor)</i>	
Goal 7 – Human Diversity	
SOCI 212 Human Relations (included in Teacher Licensure Reqts.)	3
Goal 8 – Global Perspective	
Choose an approved Goal 8 Course from the SMSU Catalog <i>(Consult with Academic Advisor)</i>	3
Goal 9 – Ethical and Civic Responsibility	
ECON 210 Intro to Cooperatives (included in Ag Education Major)	3
Goal 10 – People and the Environment	
ENVS 180 – Introduction to Environmental Science (Counted under LEP Category #3)	0
Total Maximum Credits for LEP Core Requirements - Ag Education	45
Actual Minimum # Credits for LEP Core Requirements - Ag Education	42
E. Core Course Requirements for the Agricultural Education Major	Credits
AGED 201 – (New Course) Communication and Leadership Skills for Agricultural Educators	
AGRI 2210: Ag Industry Machinery Maintenance at Ridgewater College (3 credits) or AGRI 2214: Machinery Principles and Management at MN West CTC (3 credits) or MEAG 1610: Ag Equipment Maintenance at South Central College (3 Credits)	3
AGED 301 – (New Course) Advising Youth Organizations	1

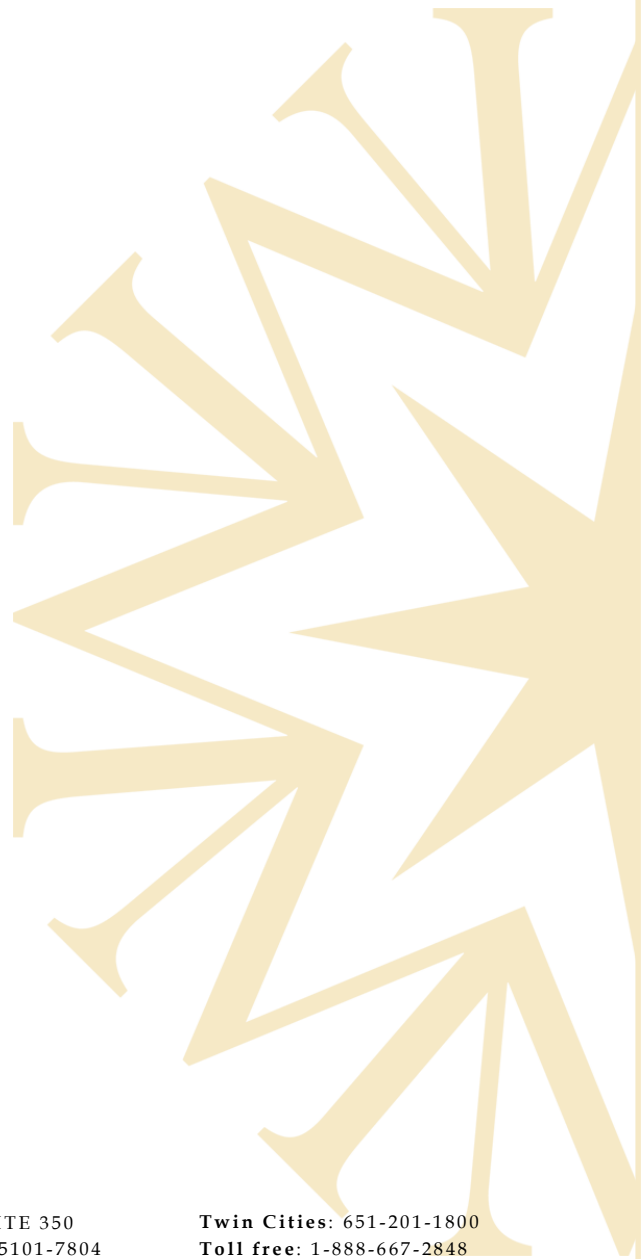
& Supervising Work Experiences	
AGED 351 – (New Course) Professional Development in Agricultural Education: Internship & Job Shadowing	1
ACCT 211 – Principles of Accounting I	3
AGBU 365 – Farm and Ranch Management I	3
AGBU 440 – Agricultural Marketing	3
AGBU 400 – International Agricultural Development	3
AGRO 115 – Prof. Development in Agriculture: Orientation & Career Planning	1
AGRO 132 – Principles and Practices of Crop Production	4
AGRO 312 – Agroecology	3
AGRO 390 – Introduction to Precision Agriculture	3
AGRI 2201: Principles of Animal Nutrition at MN West CTC, or AGRI 1810: Introduction to Animal Science at Ridgewater College or ANSC 2100: Principles of Animal Nutrition at South Central College	3
ECON 210 – Introduction to Cooperatives (Count as 3 credits under LEP Goal #9)	0
ENVS 301 – Basic Soil Science	3
HOSP 120 – Food Sanitation and Safety	1
LEP 400 – Interdisciplinary Senior Seminar	3
RNEW 1300: Introduction to Traditional and Renewable Energy at MN West CTC (3 credits)	3
AGRI 2200: Farm Buildings and Structures at Ridgewater (2 credits) or MEAG 1500: Facilities Maintenance (3 cr) @ SCC	2
Total Credits for Ag Education Major	44
Tally: Credits for BS in Agricultural Education – Teacher Licensure Specialization	<u>Credits</u>
Professional Secondary Education Sequence	34
SMSU LEP	42
Agricultural Education Major Requirements (including LEP 400)	44
Total Credits	120



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