



**NEW MEXICO STATE UNIVERSITY BOARD OF REGENTS  
SPECIAL MEETING  
May 29, 2024 at 3:00 PM**

Live Webcast at the following address: <https://nmsu.zoom.us/j/81547872302>

**Regents of New Mexico State University**

Chair Ammu Devasthali, Vice Chair Christopher T. Saucedo, Secretary/Treasurer Garrett Moseley, Dina Chacón-Reitzel, Deborah Romero

**Non-Voting Advisory Members** - ASNMSU President Ala Alhalholy, Faculty Senate Chair Vimal Chaitanya, Ph.D., Employee Council Chair Donna Johnson

**University Officials** - Interim President Mónica Torres, Ph.D., Interim Provost Lakshmi Reddi, Ph.D., General Counsel Lisa Henderson, J.D.

**AGENDA**

**A. Call to Order**

- 1. Confirmation of Quorum**, *Chairwoman Ammu Devasthali*
- 2. Approval of the Agenda**, *Chairwoman Ammu Devasthali*

**B. Consent Items**

- 1. None.**

**C. Action Items**

- 1. Human Dimensions of Agriculture (Education, Extension, Communication, & Innovation) - Doctor of Philosophy**, *Department Head Steve Frazee*
- 2. NMSU System: Five-Year Facilities Plans**, *Associate Vice President Raghu Raghavan*

**D. Informational Items**

- 1. None.**

**E. Announcements and Comments**, *Chairwoman Ammu Devasthali*

**F. Adjournment**, *Chairwoman Ammu Devasthali*



**Board of Regents Meeting**  
**Meeting Date: May 29, 2024**  
**Agenda Item Cover Page**

**Agenda Item # C-1**

- Action Item
- Consent Item
- Informational Item

**Presented By:**

**Steve Fraze**  
*Department Head*  
*Agricultural and Extension Education*

**Agenda Item:** Human Dimensions of Agriculture (Education, Extension, Communication, & Innovation) - Doctor of Philosophy

**Requested Action of the Board of Regents:** Approval of the Human Dimensions of Agriculture - Doctor of Philosophy program as presented.

**Executive Summary**

The Human Dimensions of Agriculture are the social sciences found in the discipline of agriculture which consist of education, extension, communications, and innovation. The list of social sciences could incorporate agricultural business, human relations, youth development, agricultural leadership, agricultural organization administration, and agricultural service occupations to name a few. Human Dimensions of Agriculture encompasses all aspects of agriculture involving person to person interaction.

NMSU has had historical interest in providing advanced graduate training in the agricultural sciences in the STEM disciplines. Momentum behind the current proposal coincided with NMSU LEADS 2025 strategic plan development. LEADS 2025 identifies PhD degrees and research expenditures in Humanities and Social Sciences as playing key roles in elevating the status of the institution and thereby the opportunities for its graduates.

The proposed Doctor of Philosophy in Human Dimensions of Agriculture is administered by the Department of Agricultural and Extension Education (AXED). It has options of a concentration in education, extension, communications, innovation or other approved social science discipline in agriculture. All options would require the same basic core research courses to develop the program with adequate rigor and the same dissertation format. The Doctor of Philosophy Degree (Ph.D.) degree is a research-oriented degree. The program of study developed by the candidate and their committee chair builds on the previous undergraduate and graduate courses completed by the candidate.

The program objectives of the PhD in the Human Dimensions of Agriculture (HDA) are aligned with preparing students for mid-career advancement and senior level program and project administration in State Departments of Agriculture, the Cooperative Extension Service, the United States Department of Agriculture or any other agricultural agency dealing with public policy and agriculture. The Ph.D. program is designed to attract students from underrepresented minorities.

**References**

See attached presentation, proposal, and supplemental materials.

**Prior Approvals**

May 22, 2024 –Regents Student Success Committee  
(Complete list of prior approvals is available in the attached materials)

# PhD in Human Dimensions of Agriculture

EDUCATION, EXTENSION, COMMUNICATIONS, OR  
INNOVATION

Shannon Norris-Parish

Assistant Professor  
AXED Graduate Coordinator

Agricultural & Extension Education

College of Agricultural, Consumer &  
Environmental Sciences



**BE BOLD.** Shape the Future.

# Student Outcomes

- Validate expertise by satisfactorily finishing and defending a dissertation that demonstrates original and independent scholarship
- Establish competency by satisfactorily completing a comprehensive written/oral examination
- Use meaningful and relevant social science literature to better understand and research questions in the Human Dimensions of Agriculture





## Student Outcomes

- Critically evaluate social science research to construct arguments that advance understanding in the Human Dimensions of Agriculture
- Demonstrate capability by completing a minimum of 10 outside-of-course experiences in the various human dimensions of agriculture, including, but not limited to, education, extension, communications, innovation, and research



# Highlights

- Resident and Global Campus
- 54 hours above a Master's Degree
- Focus on Research in Chosen Area
- 15 Hours of Disciplinary Courses, 15 Hours Research, 18 Hours Dissertation, 6 Hours Elective or Advanced Research or Transfer
- Experience Plan



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# Admission Requirements



A master's degree in an appropriate field from an accredited university



An acceptable grade point average in undergraduate and graduate studies (an undergraduate **GPA of 3.0** and a graduate GPA of 3.0 in 24 or more hours)



An acceptable score on the Graduate Record Examination (GRE)



Three years of appropriate professional experience



Three letters of recommendation from academic or professional sources



Letter of intent describing the applicant's goals for academic and professional development

# Credit for Prior Learning

- Degree program requires a **minimum of 36 semester hours of graduate coursework** along with the development of a **dissertation (18 hours)** beyond a master's degree (**total of 54 hours post-master's degree**).
- Based on have a minimum of 30 hours in a master's program, this program would be a **minimum of an 84-hour graduate program**.





# Alignment with NMSU LEADS 2025



## Goal 1:

Enhance  
Student  
Success and  
Social  
Mobility

## Goal 2:

Elevate  
Research  
and  
Creativity

## Goal 3:

Amplify  
Outreach &  
Extension

## Goal 4:

Build a  
Robust  
University  
System

## Goal 5:

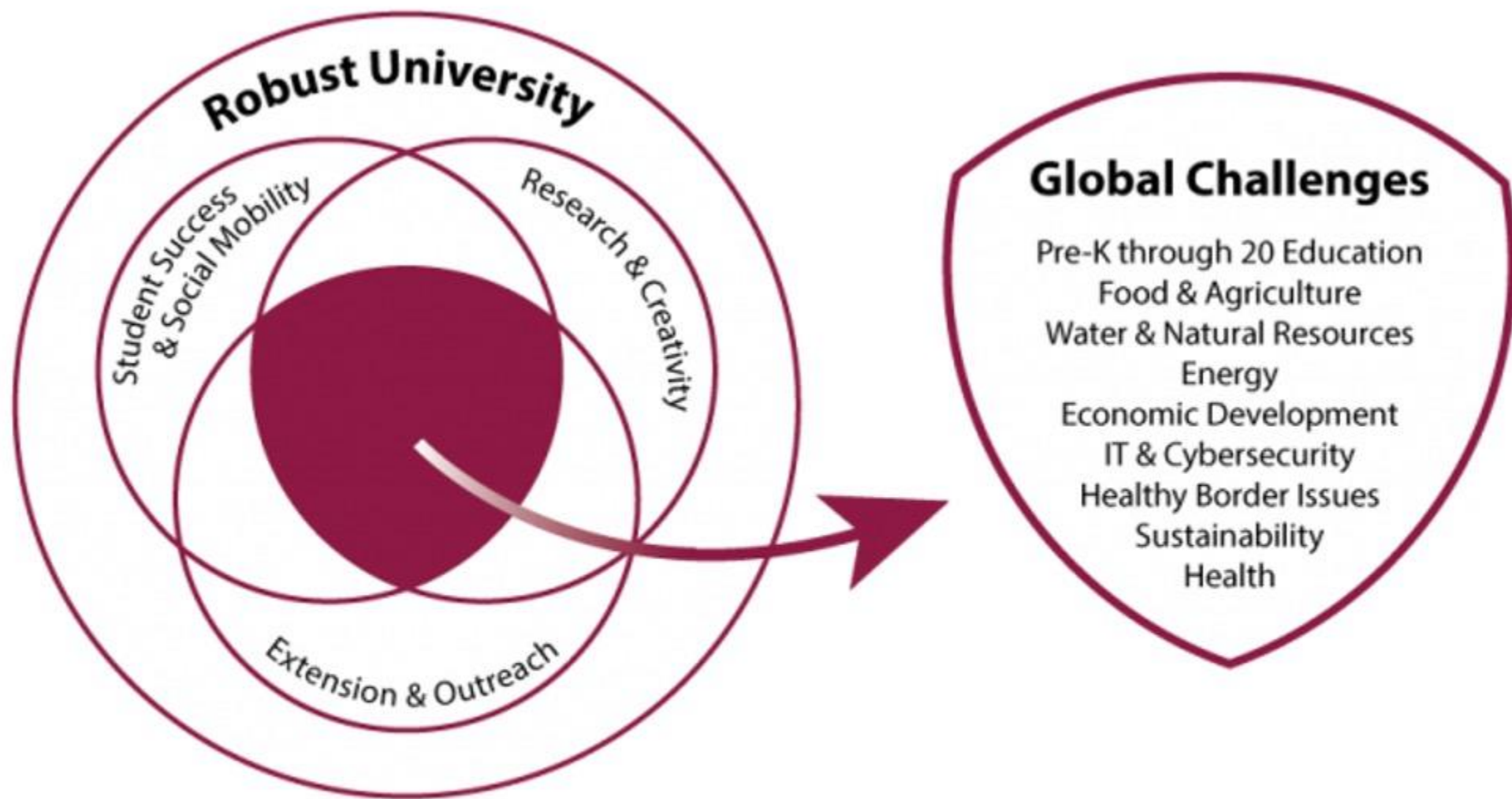
Building an  
Online  
Global  
Campus

## Goal 6:

Build,  
Elevate, &  
Strengthen  
Sustainable  
Systemwide  
Equity,  
Inclusion &  
Diversity  
Practices



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# Support

- New Mexico Cooperative Extension Service
- New Mexico Department of Agriculture
- New Mexico Department of Agricultural Education and FFA
- College of ACES, NMSU
- NMSU Global Campus
- New Mexico Agricultural Leadership Program
- Diné College on the Navajo Reservation
- NMSU Graduate School
- **National Association of Agricultural Educators (NAAE)**
- **Eastern New Mexico University**
- **Oregon State University**



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# Graduate Assistantship Funding

- College of ACES – 1 Assistantship
- Global Campus – 2 Assistantships and 1 Post-Doc
- Graduate School – 2 PhD Assistantships
- HSI Grant – 1 PhD Assistantship
- NSF Grant – 1 PhD Assistantship
- NextGen Grant – 1 PhD Assistantship
- Future Grants to Include PhD Assistantships



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# Program Evaluation

- AXED faculty will manage admissions and oversee progress of students in the program
- Faculty will implement curricular revisions
- Department will work with sponsoring and affiliated programs on reporting assessment of program outcomes as required by NMSU
- Department will collect program statistics required for annual departmental reviews and periodic program reviews required for institutional accreditation

# Program Evaluation

- Main criteria to determine program effectiveness in terms of quality will be early career placements or career advancements of students completing the program
- Research projects, with documentation of impact of the research, and documented community impact will be a second criteria
- AXED will use Gray Associates to quantify real costs associated measurable inputs including faculty salaries, fractional workloads associated with programs, and credit hour production. This system will be used to measure costs effectiveness compared to other doctoral programs at NMSU
- Other standard metrics that apply to all programs such as retention and time to degree will also be used





# Program Evaluation

- AXED will do an extensive 3-year review using data for retention, graduation rate, job placement, and program costs
- All students will be given exit interviews upon departure from the program either graduating or withdrawing
- AXED will evaluate the curriculum based on peer programs offerings and what current trends are dictating
- After three years when the first cohort graduates, we will conduct an external review with nationally recognized faculty from similar programs, and again, every five years



Photo credit: (Unsplash, 2023)

# What gap are we trying to fill?

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# Gray's Data

## 01.0801 Agriculture & Extension Services

- Completion volume is seeing a gradual increase
- Only 5 schools have completions in the USA and No schools in west have seen any completions so far.
- High employment demand in the west. 1 year BLS historic growth is one of the highest at 122%

## 13.1301 Agriculture Teacher Education

- Steady Completion Volume.
- Only 7 schools have completions in the USA and 0 in west so far.
- Less market demand in the west compared to national market.

## 01.0802 Agriculture Communication/Journalism

- No School is offering this program.
- No completions in the past 5 years.

## 13.1301 – Data for New Ph.D. Programs

# Thank you!

## Questions?



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Shannon Norris-Parish — [norriss@nmsu.edu](mailto:norriss@nmsu.edu)

# 982: HUMAN DIMENSIONS OF AGRICULTURE (EDUCATION, EXTENSION, COMMUNICATION, & INNOVATION) - DOCTOR OF PHILOSOPHY

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## In Workflow

1. Student Records Office - Programs (gdmart@nmsu.edu)
2. AG Academic Dean (deconner@nmsu.edu)
3. Graduate Dean (rkoodali@nmsu.edu)
4. UPAC - Chair (jlakey@nmsu.edu)
5. Provost (mcateer@nmsu.edu; bgamillo@nmsu.edu)
6. President (leslie86@nmsu.edu)
7. Board of Regents (cavotta@nmsu.edu)
8. Graduate School - Council of Deans (rkoodali@nmsu.edu)
9. Student Records Office - HED (gdmart@nmsu.edu)
10. Student Records Office - CIP (gdmart@nmsu.edu)
11. MA HLC (bgamillo@nmsu.edu)
12. Student Records Office (gdmart@nmsu.edu)

## Approval Path

1. Mon, 03 Jul 2023 15:15:00 GMT  
Gabrielle Martinez (gdmart): Approved for Student Records Office - Programs
2. Fri, 14 Jul 2023 17:42:03 GMT  
Donald Conner (deconner): Approved for AG Academic Dean
3. Fri, 14 Jul 2023 20:50:19 GMT  
Carol Flinchbaugh (cflinch): Approved for Graduate Dean
4. Fri, 15 Sep 2023 22:20:17 GMT  
Joe Lakey (jlakey): Rollback to Initiator
5. Tue, 24 Oct 2023 15:05:23 GMT  
Gabrielle Martinez (gdmart): Approved for Student Records Office - Programs
6. Tue, 05 Dec 2023 22:18:00 GMT  
Donald Conner (deconner): Approved for AG Academic Dean
7. Wed, 06 Dec 2023 00:35:13 GMT  
Carol Flinchbaugh (cflinch): Approved for Graduate Dean
8. Wed, 21 Feb 2024 15:08:04 GMT  
Gabrielle Martinez (gdmart): Rollback to Initiator
9. Fri, 23 Feb 2024 16:40:50 GMT  
Gabrielle Martinez (gdmart): Approved for Student Records Office - Programs
10. Tue, 27 Feb 2024 19:08:04 GMT  
Donald Conner (deconner): Approved for AG Academic Dean
11. Tue, 27 Feb 2024 23:42:51 GMT  
Ranjit Koodali (rkoodali): Approved for Graduate Dean
12. Tue, 05 Mar 2024 17:19:03 GMT  
Joe Lakey (jlakey): Approved for UPAC - Chair
13. Wed, 27 Mar 2024 02:40:10 GMT  
James Mcateer (mcateer): Approved for Provost
14. Wed, 27 Mar 2024 19:59:54 GMT  
Leslie Cervantes (leslie86): Approved for President

## New Program Proposal

Date Submitted: Wed, 21 Feb 2024 17:43:27 GMT

**Viewing: 982 : Human Dimensions of Agriculture (Education, Extension, Communication, & Innovation) - Doctor of Philosophy**

**Last edit: Wed, 21 Feb 2024 17:43:24 GMT**

Changes proposed by: Steven Frazee (sfrazee)

## Submission Information

The Degree Type will factor into the level and the submissions that must occur for HED and HLC.

- Community College Types: Applied Associate Degree, Associate Degree, Certificate, Concentration
- Main/Global Campus Undergrad Types: Bachelor's Degree, Concentration, Minor
- Main/Global Campus Graduate Types: Master's Degree, Doctoral Degree, Certificate, Concentration, Minor

### Degree Type

Doctoral Degree

The Degree Title dropdown has all existing degree titles in Banner, if you do not see the one you are looking for you will select "Other" then in the New Degree Title box you will type out the official title of the degree (as you would want it to appear on a students record, transcript, and/or diploma).

### Degree Title

Doctor of Philosophy

### Academic Level

Graduate

The Catalog Title will be what is displayed in the catalog page. The standard format is Major (Concentration) - Degree Title. (I.e., Mathematics (Secondary Education) - Bachelor of Science. Note: If there is no concentration you would just list the Major - Degree.

### Catalog Title

Human Dimensions of Agriculture (Education, Extension, Communication, & Innovation) - Doctor of Philosophy

### College

Agricult/Consumer/Environ Sci

### Campus

Main Campus

### Department

Ag Extension Education

### Effective Catalog

2024-2025

If opting for a Global program, specify "Global Campus" under campus type. You must have a Program Proposal on file with Global Campus prior to submission of a new Global program. Contact Global Campus for more information.

### Program Teaching Modality

Traditional-Face to Face

### CIP Code

13.1301 - 13.1301

### Normal or typical length of time for students to complete the program (in years)

3

## Curriculum Information

### Program Learning Outcomes

	Learning Outcomes
Outcome 1	Validate expertise by satisfactorily finishing and defending a dissertation that demonstrates original and independent scholarship
Outcome 2	Establish competency by satisfactorily completing a comprehensive written/oral examination
Outcome 3	Use meaningful and relevant research literature to better understand and research questions in the Human Dimensions of Agriculture
Outcome 4	Critically evaluate social science research to construct arguments which further understanding of research in the Human Dimensions of Agriculture

- Outcome 5 Demonstrate capability by completing a minimum of five outside-of-course experiences in the various human dimensions of agriculture including, but not limited to, education, extension, communications, innovation, and research (outside of course experiences include activities that will enhance the student's career objectives such as research conferences, internships, grant writing, youth leadership conventions, college teaching, etc.)

#### List of academic departments/units and or institutions involved in the delivery of courses

##### Department/Unit

Agricultural and Extension Education

Animal and Range Science

School of Teacher Preparation, Administration, and Leadership

The Course Requirements, need to be in the standard format for the catalog because this piece of the form will be imported directly onto the catalog page. See the Student Records Website for a guide. The total number of credits at the bottom of the course list will be the "official" total for the degree. Please make sure it adds up correctly.

#### Course Requirements

Prefix	Title	Credits
<b>Disciplinary Courses (15 Hours)</b>		
AXED 5110	Management of Change, Diffusion, and Adoption of Innovations	3
AXED 5150	Strategic Communications Campaigns and Evaluation	3
AXED 5165	History and Philosophy of Agricultural and Extension Education	3
AXED 5320	Risk and Crisis Communications in Agricultural, Consumer, and Environmental Sciences	3
AXED 5170	Keys for Agricultural and Rural Development	3
<b>Research and Statistics (15 Hours)</b>		
AXED 5510	Research Methods	3
AXED 5515	Data Collection and Analysis	3
EDUC 6440	Qualitative Research I	3
EDUC 6420	Evaluation of Quantitative Research in Education	3
EDUC 6230	Research in Praxis: Qualitative Research II	3
<b>Graduate Electives/Research (6 Hours determined with the student's graduate committee and may include advanced statistical analysis methodologies or advanced study in quantitative and/or qualitative research methodologies. Listed courses are examples)</b>		<b>6</b>
AXED 5996	Special Topics	3
ACOM 5115	Global Issues in Agricultural Communications and Marketing	3
<b>Dissertation (18 Hours)</b>		
AXED 7000	Doctoral Dissertation	18
<b>Total Credits</b>		<b>54</b>

The Road Map, need to be in the standard format for the catalog because this piece of the form will be imported directly onto the catalog page. See the Student Records Website for a guide. All courses and the total number of credits at the bottom of the roadmap should match the Course Requirements list.

#### Road Map

##### First Year

		Credits
<b>Fall</b>		
AXED 5510	Research Methods	3
AXED 5150	Strategic Communications Campaigns and Evaluation	3
<b>Credits</b>		<b>6</b>
<b>Spring</b>		
AXED 5515	Data Collection and Analysis	3
EDUC 6440	Qualitative Research I	3
<b>Credits</b>		<b>6</b>
<b>Summer</b>		
EDUC 6420	Evaluation of Quantitative Research in Education	3
AXED 5320	Risk and Crisis Communications in Agricultural, Consumer, and Environmental Sciences	3
<b>Credits</b>		<b>6</b>
<b>Second Year</b>		
<b>Fall</b>		
AXED 5996	Special Topics	3

AXED 5165	History and Philosophy of Agricultural and Extension Education	3
<b>Credits</b>		<b>6</b>
<b>Spring</b>		
ACOM 5115	Global Issues in Agricultural Communications and Marketing	3
EDUC 6230	Research in Praxis: Qualitative Research II	3
<b>Credits</b>		<b>6</b>
<b>Summer</b>		
AXED 5170	Keys for Agricultural and Rural Development	3
AXED 5110	Management of Change, Diffusion, and Adoption of Innovations	3
<b>Credits</b>		<b>6</b>
<b>Third Year</b>		
<b>Fall</b>		
AXED 7000	Doctoral Dissertation	6
<b>Credits</b>		<b>6</b>
<b>Spring</b>		
AXED 7000	Doctoral Dissertation	6
<b>Credits</b>		<b>6</b>
<b>Summer</b>		
AXED 7000	Doctoral Dissertation	6
<b>Credits</b>		<b>6</b>
<b>Total Credits</b>		<b>54</b>

\*Adjustments will be made for on campus graduate assistants requiring 9 hour in fall and spring semesters.

The admission requirements are needed if the program has a specialized admission process that exceeds the campus requirements for either the Undergraduate or Graduate admission standards.

• For graduate programs, the Graduate School asks for the following information (Provide a summary of the documents and specific information each student will need to provide to be considered for the program): Description, Statement of Purpose/Letter of Interest; Specialty Letter of Interest; Resume; Writing Sample; GRE; GMAT; Special Questions (if yes, what questions need to be answered); Letters of Recommendation (how many are required); NMSU Faculty Representative (if yes, how many); Foreign Language; WES Evaluation; Special License or Verifications (what license/verification)

#### Admission Requirements

- A master's degree in an appropriate field from an accredited university.
- An acceptable grade point average in undergraduate and graduate studies (an undergraduate GPA of 3.0 required for enrollment in a Masters' Program and a graduate GPA of 3.0 for enrollment in a Doctoral Program).
- An acceptable score on the Graduate Record Examination (GRE)
- Three years of appropriate professional experience within the discipline to be studied such as a focus on extension would require the student to have extension experience.
- Three letters of recommendation from academic or professional sources.
- Letter of intent describing the applicant's goals for academic and professional development.

#### Does this program lead to licensure, yes or no?

No

#### Is credit for prior learning built into the program, if yes explain?

This degree program requires a minimum of 36 semester hours of graduate coursework along with the development of a dissertation (18 hours) beyond a master's degree (total of 48 hours post-master's degree). Based on have a minimum of 30 hours in a Masters' Program this degree program would be a minimum 84 hour graduate program.

#### Faculty Members Employed to Teach in the Program

##### Existing Personnel

Dr. Steve Frazee, PhD

##### FTE

1

#### Course load and courses they will teach in the proposed program

AXED 5110, Management of Change, Diffusion, and Adoption of Innovations  
 AXED 5996 Special Topics  
 AXED 7000 Doctoral Dissertation

**Courses taught in other programs currently offered**

AXED 1110, AXED 4230, AXED 4710, AXED 5165, AXED 5110

**Description of academic qualifications**

· Doctor of Philosophy Degree (1986) Texas A&M University  
 Major: Agricultural Education  
 Support Areas: Mechanized Agriculture  
 & Ag-Business Management  
 Dissertation: Relationship of participation in FFA activities with career choice and job satisfaction  
 · Master of Education Degree (1978) Texas Tech University  
 Major: Agricultural Education  
 · Teacher Certification (1976) Texas Tech University  
 Major: Agricultural Education  
 · Bachelor of Science Degree (1975) Lubbock Christian College  
 Major: Agriculture/Animal Science

**Prior instructional responsibility and other experiences relevant to assigned courses**

Jan 2020 to present Department Head and Professor  
 Department of Agricultural & Extension Education  
 College of Agriculture, Consumer, and Environmental Sciences  
 New Mexico State University

August 2016-2018 Interim Dean  
 College of Agricultural Sciences and Natural Resources  
 Texas Tech University

Sept 2008-Dec. 2019 Department Chair & Garrison Endowed Chair for Rural Youth Development  
 Dept. of Agricultural Education & Communications  
 Texas Tech University

2004-2020 Professor, Agricultural Education  
 Dept. of Agricultural Education & Communications  
 Texas Tech University, Lubbock, TX

1996-2004 Associate Professor, Agricultural Education  
 Dept. of Agricultural Education & Communications  
 Texas Tech University, Lubbock,

1988-1996 Assistant Professor, Agricultural Education  
 Dept. of Agricultural Education & Communications  
 Texas Tech University, Lubbock, TX

Established the PhD in Agricultural Communications and Education at Texas Tech University in 2011.

Member of the committee that established the joint online doctoral program with Texas Tech and Texas A&M in 2000 called Doc @ Distance.

**For graduate programs, document scholarship and research capability**

28 refereed Journal articles  
 96 refereed papers and posters in conference proceedings

Thorn, L., Meyers, C., Frazee, S., & Akers, C. (2023) Identifying stakeholders' needs for agricultural communications in higher education curriculum in Australia. *Journal of Applied Communications* 106(4) 10.4148/1051-0834.2462

Baldock, K. D., Murphrey, T. P., Briers, G. E., Rayfield, J., Frazee, S. (2022). Agricultural educators' adoption of Inquiry-Based Learning (IBL): Effects of beliefs. *Journal of Agricultural Education*, 63(4), 188-203

Funded Grants and Contracts \$4,795,973.00  
 New Mexico State University

Frazee, S.D. & Hill, N. (2021-2025) Young Agri-Scientists: Connecting diverse students to each other and FANH careers through experiential learning in mentored research and science communication. USDA NIFA Hispanic-Serving Institutions –Funded \$975,314.00.

Edgar, D., Norris, S., Hill, N., Frazee, S., Lombard, K., Mesbah, A., Bittner, L., Trueblood, C., & Dean, T. (2021–2026). Impacting career engagement in agricultural, consumer and environmental sciences (ICEnACES). United States Department of Agriculture, Research and Extension Experiential Learning for Undergraduate (REEU) Fellowships Program. Funded \$626,218.00.

Frazee, S. Precision Agricultural Technology. Funded by New Mexico State University Agricultural Experiment Station - \$51,000 – July 1, 2021-June 30, 2022. (100% - \$51,000)

**For doctoral programs, document faculty experience in directing student research**

- Thesis Committees/Chaired: 52
- Dissertation Committees: 21
- Dissertation Committees Chaired: 14

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**Existing Personnel**

Dr. Don W. Edgar, PhD

**FTE**

1

**Course load and courses they will teach in the proposed program**

AXED 5510 Research Methods  
AXED 5515 Data Collection and Analysis  
AXED 7000 Doctoral Dissertation

**Courses taught in other programs currently offered**

AXED 105, AXED 331

**Description of academic qualifications**

Doctor of Philosophy Agriculture Education Texas A& M University – College Station, TX Conferred – May 2007

Master of Science Agricultural Education Tarleton State University – Stephenville, TX Conferred – August 2003

Bachelor of Science Agricultural Services & Development Tarleton State University – Stephenville, TX Conferred – December 1992

**Prior instructional responsibility and other experiences relevant to assigned courses**

Professor New Mexico State University 07/01/2020 – present [12 month: 75% Teaching / 25% Research]  
Associate Professor University of Georgia 08/2018 – 05/2020 [9 month: 75% Teaching / 25% Extension]  
Associate Professor University of Arkansas 08/2013 – 05/2018 [9 month: 65% Teaching / 25% Research / 10% Service]  
Assistant Professor University of Arkansas 08/2008 – 07/2013 [9 month: 75% Teaching / 15% Research / 10% Service]  
Assistant Professor South Dakota State University 08/2007 – 05/2008 [9 month: 100% Teaching]  
2020 Distinguished Teaching Award, Southern Region American Association of Agricultural Education  
2017 North American Colleges and Teachers of Agriculture (NACTA) Teaching Award of Merit  
2016 University of Arkansas Dale Bumpers College of Agricultural, Food, and Life Sciences (DBCAFLS) John White Award recipient  
2015 Inductee into the University of Arkansas Teaching Academy

**For graduate programs, document scholarship and research capability**

Journal Articles (Career; N = 45 published) (n = 0, In Press) (n = 1, In Review)

Gonzales, A. G., Edgar, D., Norris, S. (In Review). The importance of diversity and inclusion in New Mexico agricultural education. *Journal of Agricultural Education*.

Lamm, K. W., Pike, L., Edgar, D.W., & Powell, A. (2022). Evaluating the impacts of 4-H participation: Development and preliminary validation of a scale. *Journal of Agricultural Education*, 63(2), 115-126. <https://doi.org/10.5032/jae.2022.02115>

Porter, J., Fuhrman, N., Peake, J. & Edgar D.W. (2022). All-terrain Vehicle Safety Knowledge and Behaviors among 4-H'ers. *Journal of Human Sciences & Extension*.



Sanders, C. E., Edgar, D. W., Cox, C. K., & Edgar, L. D. (2022). Exploring Interactions Between Arkansas Urban Producers: Social Networks and Modes of Information Seeking. *Journal of Human Sciences and Extension*, 10(1), 12. <https://scholarsjunction.msstate.edu/jhse/vol10/iss1/12>

Grants Received [Total funds: \$6,929,053; Edgar (%) \$938,090]

2021: PI, USDA NIFA REEU: Impacting Career Engagement in Agricultural, Consumer and Environmental Sciences. Funded: \$613,590

2020: Co-PI, USDA NIFA BFRDB: Transitioning Land to a New Generation: Preparing Trainers to Help Facilitate Transfer. Funded: \$750,000 and Edgar's portion \$22,800.

2019: Co-PI, FW-HTF-RL: Cultivating Capacities for Responsible Hacking, Creating, and Making the Future of Work in Agriculture. Tidwell, J.H., Edgar, D.W., Grubert, E., Sadakar, S., & Yopp, A. Funded by the National Science Foundation at \$1,996,465.

**For doctoral programs, document faculty experience in directing student research**

- Thesis Chaired: 13
- Thesis Committee: 23

**Existing Personnel**

Dr. Shannon Norris-Parrish, PhD

**FTE**

1

**Course load and courses they will teach in the proposed program**

AXED 5150 Strategic Communications Campaigns and Evaluation  
 ACOM 5115 Global Issues in Agricultural Communications and Marketing  
 AXED 7000 Doctoral Dissertation

**Courses taught in other programs currently offered**

ACOM 1130, ACOM 3115, ACOM 4115, ACOM 5115, AXED 5150

**Description of academic qualifications**

Ph.D. 2020

Texas A&M University, Agricultural Leadership, Education, and Communications

Certificates: Advanced Research Methodology; Homeland Security

Dissertation: "Enabling the enablers: Developing USASOC curricular and training support for agricultural assessment in conflict zones"

M.S. 2015

Oklahoma State University, Agricultural Communications

Thesis: "Mentorship and servant leadership: Perceptions of first-year college students"

B.S. 2013

New Mexico State University, Agricultural and Extension Education

Minor: Animal Science

**Prior instructional responsibility and other experiences relevant to assigned courses**

Assistant Professor August 2020–Present

New Mexico State University, Department of Agricultural and Extension Education, Las Cruces, NM

Duties:

- Design, develop, and deliver agricultural communications courses, focused in writing, for undergraduate and graduate students.
  - Advise graduate students in focus areas of agricultural communications, education, and extension, as well as youth development and food security.
  - Research effective communication modalities for science communication.
  - Collaborate with community leaders and stakeholders to develop alumni and supporter relations to the department and college
- Graduate Research/Teaching Assistant August 2017–

August 2020 Texas A&M University, College of Agriculture and Life Sciences, College Station, TX

**For graduate programs, document scholarship and research capability**

Summary of Publications and Scholarly Work:

- Refereed Journal Articles 5
- Scientific Abstracts in Refereed Journals 19
- Scientific/Technical Reports 6
- International Refereed Conference Proceedings/ Presentations 9
- National Refereed Conference Proceedings/Presentations 6
- Regional Refereed Conference Proceedings/Presentations 15
- Peer-Reviewed Poster Presentations 33

Murphrey, T. P., Richburg, A. W., Leggette, H. R., Norris-Parish, S. L., & Parrella, J. A. (Submitted). Ready, set, communicate: Measuring usability of instructional modules designed to improve communications skills of students studying agricultural sciences. *Journal of Applied Communications*, 107(2), 1–28. <https://doi.org/10.4148/1051-0834.2478>

Baker, C., Parrella, J., Norris, S. L., Leggette, H. R., & Walther, D. (2021). Learning to improvise, not criticize: Using improvisation techniques to enhance students' ability to engage in civil discourse about science. *Communication Teacher*. <https://doi.org/10.1080/17404622.2021.1988668>

Norris, S. L., Leggette, H. R., Murphrey, T. P., Richburg, A., & Bush, M.\*\* (2020). Science communication: Context-specific reusable learning modules for strengthening students' communications skills. *NACTA Journal, Teaching Tip*. [https://www.nactateachers.org/images/TeachingTips/TT\\_2020-0248.pdf](https://www.nactateachers.org/images/TeachingTips/TT_2020-0248.pdf)  
Note: Awarded the 2021 NACTA Bob Gough Teaching Tip Award.

11 Total Funded Grants \$41,744,960

Mast, N. L., et al. (PD), Löest, C., & Norris-Parish, S. L. (2023–2028). LEADING Hispanics to federal agency employment (LEADING: Leading and Enhancing Agricultural Development In the Next Generation). USDA-NIFA, NEXTGEN Program (USDA-NIFA-ARPAED-009362). Funded \$20,000,000.00.  
Role: Co-principal investigator leading educational component of the project.

Lamba, J., Ghimire, R., Zhang, J., & Norris-Parish, S. L. (2023–2027). Developing effective adaptation strategies to enhance the resilience of farmers under changing climate. National Science Foundation (NSF 22-633). Funded \$10,000,000.00.  
Role: Key personnel leading educational component of the project.

Robinson, C., Norris, S. L., Brewer, C., & Hustedde, R. (2022). Appreciative inquiry and community capital summit: Creating a shared vision of a resilient food system. USDA-NIFA, Agriculture and Food Research Initiative Competitive Grants Program, Conference Grant. Funded \$50,000.00.  
Role: Co-principal investigator. Coordinate involvement with agricultural stakeholders.

**For doctoral programs, document faculty experience in directing student research**

- Thesis:
  - o Chair: 7 students
  - o Committee Member: 8 students
- Non-Thesis – Creative Component:
  - o Chair: 9 students
  - o Committee Member: 5 students
- TOTAL:
  - o Chair: 16 students
  - o Committee Member: 13 students

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**Existing Personnel**

Dr. John William Norris, PhD

**FTE**

1

**Course load and courses they will teach in the proposed program**

AXED 5165 History and Philosophy of Agricultural and Extension Education  
 AXED 5170 Keys for Agricultural and Rural Development  
 AXED 7000 Doctoral Dissertation

**Courses taught in other programs currently offered**

AXED 2110, AXED 4215/5215, AXED 5155, AXED 5165, AXED 5170

**Description of academic qualifications**

Auburn University; Auburn, AL | Graduate Certificate: Educational Leadership; 2021  
 GPA: 4.00

Mississippi State University; Starkville, MS | Doctor of Philosophy (Ph.D.); Agricultural Science; 2021  
 GPA: 3.78; Program Concentration: Agricultural and Extension Education

Dissertation Topic: Perceptions of Career and Technical Education Administrators on STEM and Employability Skills Integration into School-Based Agricultural Education.

Auburn University; Auburn, AL | Education Specialist (Ed.S.): Adult Education; 2018  
 GPA: 3.67

Auburn University; Auburn, AL | Master of Education (M.Ed.): Agriscience Education; 2017  
 GPA: 4.00

Auburn University; Auburn, AL | Bachelor of Science (B.S.): Agriscience Education; 2016  
 GPA: 3.80; Summa Cum Laude; Dean's List – Spring 2015; Summer 2015; Summer 2016

Central Alabama Community College; Alexander City, AL | Associate in Science (A.S.); 2016  
 GPA: 3.37; Academic Scholar; Dean's List – Spring 2014

**Prior instructional responsibility and other experiences relevant to assigned courses**

New Mexico State University- Assistant Professor; Las Cruces, NM | 2022 – Present  
 Appointment: 75% Teaching, 12.5% Research, 12.5% Extension

Wetumpka High School- Agriscience Instructor; Wetumpka, AL | 2018 - 2022

**For graduate programs, document scholarship and research capability**

1 journal article in press and 3 in review

15 peer reviewed conference presentations

Norris, W. & Frazee, S. (Accepted, 2023) Effectiveness in the Classroom: A Quantitative Evaluation of Agricultural Educators' Competence Levels Regarding the Qualities of an Effective Teacher. To be Presented at the Western Region Conference for the American Association of Agricultural Educators. September 18-20. Logan, UT

Norris, W. & Frazee, S. (Accepted, 2023) Agricultural Education for All: Importance and Ability of Agricultural Educators to Integrate Special Education Competencies into Professional Practice. To be Presented at the Western Region Conference for the American Association of Agricultural Educators. September 18-20. Logan, UT

Norris, W. & Norris-Parrish, S. (Accepted, 2023). The Emotional Duties of an Agricultural Educator: Evaluating the Confidence Levels of Agricultural Educators to Support Students with Adverse Childhood Experiences. Presented at the National Conference for the American Association of Agricultural Educators. May 15-18. Raleigh, NC.

3 grants submitted year 1 at New Mexico

Co-PI, (2023). Youth AGvocates in Underserved Communities: Investigating and Evaluating Smart Farming for Pest Management. USDA NIFA. Education and Workforce Development. (\$750,000). (In Review).

Co-PI, (2022). An Integrative Approach to Expanding Agricultural Opportunity. USDA NIFA. New Beginnings for Tribal Students Program for \$500,000; NMSU's portion: Subaward for \$140,088. (Funded).

Co-PI, (2022). Cultivating the Next Generation of Diverse Food and Agriculture Professionals (NEXTGEN): A National Inclusion, Diversity, Equity, and Access (IDEA) Program. USDA NIFA. NEXTGEN for \$20,000,000; NMSU's portion: 20% (\$4,000,000). (Not Funded)

**For doctoral programs, document faculty experience in directing student research**

1 Dissertation Committee  
6 Thesis Committee Chair  
4 Non-Thesis Committees

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**Existing Personnel**

Dr. Leslie Edgar, PhD

**FTE**

.25

**Course load and courses they will teach in the proposed program**

AXED 7000 Dotoral Dissertation

**Courses taught in other programs currently offered**

Associate Dean for Research & Agricultural Experiment Director

**Description of academic qualifications**

2007 Ph.D. Texas A&M University Agricultural Leadership, Education & Communications  
Support Areas: Agricultural Communications, Agricultural Leadership, and Distance Education

2002 M.S. Utah State University Agricultural Systems, Technology & Education  
Support Area: Adult Extension Education

2000 B.S. Utah State University Animal Science  
Minor in Business Management

**Prior instructional responsibility and other experiences relevant to assigned courses**

Associate Dean of Research and Director Agricultural Experiment Station May 2020 – Present  
New Mexico State University, Las Cruces, New Mexico  
College of Agricultural, Consumer and Environmental Sciences (ACES)

Professor and Department Head March 2018 – May 2020  
University of Georgia, Athens, Georgia  
Agricultural Leadership, Education and Communication Department (AECT) in the College of  
Agricultural and Environmental Sciences (CAES)

Graduate Coordinator July 2018 – July 2019  
University of Georgia, Athens, Georgia  
Agricultural Leadership, Education and Communication Department (AECT)

Professor, Agricultural and Science Communication July 2016 – Feb. 2018  
University of Arkansas, Fayetteville, Arkansas  
Agricultural Education, Communications and Technology Department (AECT)

Assistant Dean for Student Programs Aug. 2015 – Feb. 2018  
Director of the Bumpers College Honors Program and the International Programs Office  
University of Arkansas, Fayetteville, Arkansas  
Dale Bumpers College of Agricultural, Food and Life Sciences (Bumpers College)

Director of International Programs Sept. 2013 – Feb 2018  
University of Arkansas, Fayetteville, Arkansas  
Dale Bumpers College of Agricultural, Food and Life Sciences (Bumpers College)

Associate Professor August 2012 – June 2016  
University of Arkansas, Fayetteville, Arkansas  
Agricultural Education, Communications and Technology Department (AECT)

Assistant Professor August 2007 – July 2012  
University of Arkansas, Fayetteville, Arkansas  
Agricultural and Extension Education Department (AEED)  
Agricultural Communications Concentration

Doctor of Philosophy in Agricultural Leadership, Education and Communication (finalized while serving as department head)  
University of Georgia

**For graduate programs, document scholarship and research capability**

Refereed Journal Articles: Published 70, In Press 1, Under Review 1 (Career)

Note. \*Student Directed Research

70. \*Sanders, C. E., Edgar, D. W., Cox, C. K., & Edgar, L. D. (2022). Exploring interactions between Arkansas urban producers: Social networks and modes of information seeking. *Journal of Human Sciences & Extension*, 10(1), 1-11. doi: <https://doi.org/10.5471/NVSQ9174> (Co-author)

69. Raczkoski, B. M., Edgar, L. D., Robinson, J. S., Edwards, M. C., & Baker, M. A. (2021). Measuring students' perceived costs of studying abroad: Instrument development and validation. *Journal of Agricultural Education*, 62(4), 221-236. doi: <https://doi.org/10.5032/jae.2021.04217> (Co-author)

68. \*Dobbins, C. E., Edgar, L. D., & Dooley, K. E. (2021). Facilitating the scholarship of discovery: Using the mini-ethnographic case study design. *Journal of Experiential Education*, 44(4), 1-14. doi:10.1177/1053825921999685 (Co-author)

GRANTSMANSHIP AND PROGRAMMATIC SUPPORT (prior to experiment station appointment)

Funded Proposals: (Edgar's portion: \$990,794; Total funded: \$2,690,885)

Co-PI, ALEC Agricultural and Science Communication Postdoctoral Research Associate. Funded by CAES Experiment Station (2 years). Total project funds \$150,000.

Co-PI, ALEC Community Diagnostics + Social Impact (CD+SI) Toolkit Postdoctoral Research Associate. Funded by CAES Experiment Station (2 years). Total project funds \$150,000.

PI, ALEC Recruitment Enhancement. Funded by UGA Graduate School (Spring 2019). Total project funds \$1,000.

PI, ALEC Graduate Student Accepted Student Day. Funded by UGA Seal the Deal Grant Program (Spring 2019). Total project funds \$1,000.

**For doctoral programs, document faculty experience in directing student research**

UNDERGRADUATE RESEARCH (UA Honors Program)

Committee Chaired: Total of 3 (Career)

Committee: Total of 1 (Career)

GRADUATE RESEARCH

Graduate Committee Chaired: Total of 18 (Career)

M.S. – Thesis (13)

M.S. – Non-Thesis (5)

Committee Member: Total of 21 (Career)

Ph.D. – Dissertation Committee (2)

M.S. – Thesis Committee (11)

M.S. – Non-Thesis (8)

**Existing Personnel**

Dr. Lacey Roberts-Hill, PhD

**FTE**

1

**Course load and courses they will teach in the proposed program**

AXED 5320 Risk and Crisis Communications in Agricultural, Consumer, and Environmental Sciences

AXED 5996 Special Topics

AXED 7000 Doctoral Dissertation

ANSC 700 Doctoral Dissertation

**Courses taught in other programs currently offered**

ACOM 1120, ACOM 2120, ACOM 3125, ACOM 4130, ACOM 4120, ACOM 5320

**Description of academic qualifications**

Texas A&M University: Ph.D. in Agricultural Leadership, Education, and Communications Graduation: Aug 2020  
Certificate: Nonprofit Management, The Bush School of Government  
Dissertation Title: Picturing Development: Visualizing International Agricultural Development and Communication

Oklahoma State University: M.S. in International Agriculture Graduation: Dec 2016  
Creative Component: 2016 Sam Noble Foundation Scholar: Watoto Fellowship in Uganda

West Texas A&M University: B.S. in Agricultural Media and Communications Graduation: Aug 2013 Minor: Agricultural Business and Economics

**Prior instructional responsibility and other experiences relevant to assigned courses**

Assistant Professor; Department of Agricultural and Extension Education  
Aug 2020-Present  
New Mexico State University

Freelance Photographer and Graphic Design Aug 2011-Present  
Las Cruces, NM

Instructor, School of Human Sciences Aug 2020-Aug 2021  
Mississippi State University

Graduate Research Assistant Aug 2017-Aug 2020  
Texas A&M University; Department of Agricultural Leadership, Education and Communication

USAID Higher Education Virtual Student Federal Service Intern Sept 2018-May 2018  
Washington, D.C.

**For graduate programs, document scholarship and research capability**

PEER-REVIEWED ARTICLES AND ABSTRACTS 4 total  
Roberts-Hill, L., Roberts, R., & Roberts, T. G. (In press). A Journey to a global scholar identity: An autoethnography of agricultural and extension faculty's experiences. *Journal of International Agricultural and Extension Education*.  
Redwine, T., McKim, B., Roberts, L., & Rogers, T., (2018). Eye-tracking: A biometric tool for measuring visual literacy in agricultural communications students. *Journal of Agricultural Education*. (In Review).  
Walter, G., Roberts, L., & Rutherford, T., (2019). So You Want to be a Faculty Member: Preparing Doctoral Students to Lead Graduate Courses. [Special Supplement: Abstracts]. *NACTA Journal* 63(1), 24.  
Redwine, T., Roberts, L., & Spence, J., (2019) Trusting the Tech: Using Eye-Tracking as a Teaching Tool. [Special Supplement: Abstracts]. *NACTA Journal* 63(1), 61.

CONFERENCE PROCEEDINGS & ABSTRACTS 19 total

**GRANTS**

Saucier, R., Reynolds, C., Victoria, M., Hainline, M., Roberts, L., Aschenbrenner, M. (2022) Southwest Agriculture and Food Safety and Security Education: Preparing Future Leadership for a Safe and Secure U.S. Food System. \$6,514,705.37 (Not Funded)

Edgar, D., Norris, S., Hill, N., Frazee, S., Lombard, K., Mesbah, A., Bittner, L., Trueblood, C., Dean, T. (2022) Impacting Career Engagement in Agricultural, Consumer, and Environmental Sciences. \$613,590.00 (Funded) Roberts-Hill, L. (Collaborator) Completing communication activities after the departure of co-author, Hill, N.

Graves, J., Roberts, L., McCubbins, A. (2022). International Agricultural Education Fellowship-Guatemala. USDA, Foreign Agricultural Service: International Agricultural Education Fellowship Program. \$504,551.00 (Not funded)

Frazee, S., Hill, N. (2021) Young Agri-Scientists: Connecting diverse students to each other and FANH careers through experiential learning in mentored research and science communication. USDA NIFA Hispanic-Serving Institutions. \$999,935.00 (Funded) Roberts-Hill, L. (Co-Project Implementor) Recruitment and educational material development and dissemination after the departure of co-author, Hill, N.

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**Existing Personnel**

Dr. Allen A. Malone, EdD

**FTE**

.25

**Course load and courses they will teach in the proposed program**

AXED 7000 Doctoral Dissertation  
Will manage the Student Experience Plans

**Courses taught in other programs currently offered**

Serves as Associate Director Cooperative Extension Service

**Description of academic qualifications**

2010 Doctorate of Education (Ed.D.)  
Texas A&M University & Texas Tech University  
Doctorate of Agricultural Education & Leadership

1993 Master of Science  
Prairie View A&M University  
Agricultural Economics

1990 Bachelor of Science  
Prairie View A&M University  
Agricultural Economics

**Prior instructional responsibility and other experiences relevant to assigned courses**

Oct. 2017 – Dec. 2022 1890 Extension Administrator/Director,  
Alabama Cooperative Extension System  
Alabama A&M University

June 2014 – Sept. 2017 County Extension Director – Harris County,  
Texas A&M AgriLife Extension Service  
Texas A&M University

August 2012 – June 2014 County Extension Agent – Harris County, Agriculture & Natural  
Resources  
Texas A&M AgriLife Extension Service  
Texas A&M University

Oct. 2010 – July 2012 County Extension Agent – Fort Bend County, Agriculture & Natural  
Resources  
Texas A&M AgriLife Extension Service  
Page | 3  
Texas A&M University

**For graduate programs, document scholarship and research capability**

2021 More in Our Cities: The Urban Difference Report 2020, Allen A. Malone, Wendi Williams, Shannon Schoeneweiss; Alabama A&M University UNP-2184

2020 More in Our Cities: The Urban Difference Report 2019, Allen A. Malone, Wendi Williams, Shannon Schoeneweiss; Alabama A&M University UNP-2175

2019 More in Our Cities: The Urban Difference Report 2018, Allen A. Malone, Wendi Williams, Shannon Schoeneweiss; Alabama A&M University UNP-2155

2018 More in Our Cities: The Urban Difference Report 2017, Allen A. Malone, Wendi Williams, Shannon Schoeneweiss; Alabama A&M University UNP-2133

2010 The Effectiveness of Leadership Development Programs on Small Farm Producers, Allen A. Malone, Doctoral Dissertation at Texas A&M University and Texas Tech University

2017 – Present Extension Funding  
Served as the Principal Investigator (PI) on USDA-NIFA Section 1444 (1890 Extension) funding of \$2.8 million annually, this funding has grown by 13% since 2017. USDA-NIFA also provides Facilities Funding for which I served as PI on 4 awards totaling approximately \$ 14 million. I also provide oversight for \$ 1.3 million in SNAP-ED and EFNEP funding. The state of Alabama provided annual

funding to support programming activities of approximately \$4.3 million each year. This funding has grown 10.2% in my brief tenure as Extension Administrator in Alabama. Prior to my arrival the Extension program at AAMU had not received an increase in its appropriation in the previous 6 fiscal year funding cycles.

2020 – Present EXCITE Funding Activity 1 & Activity 2 Provided Agency leadership for a 2-phase funding proposal from the Centers for Disease Control and the Cooperative Extension Section of APLU. The grant was designed to provide outreach education to communities experiencing hesitancy related to the COVID-19 vaccination. Total funding for the 2 activities equates to about \$250,000 in shared funding with Auburn University.

**For doctoral programs, document faculty experience in directing student research**

Has not had the opportunity to direct student research as an Extension Administrator

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**Existing Personnel**

Dr. LaJoy R. Spears, PhD

**FTE**

1

**Course load and courses they will teach in the proposed program**

AXED 7000 Doctoral Dissertation

**Courses taught in other programs currently offered**

Dr. Spears is the Evaluation Specialist for the Cooperative Extension

**Description of academic qualifications**

Iowa State University, Ames, IA, 2011  
Ph.D., Agricultural Education and Studies  
Curriculum and Instructional Technology

University of Tennessee, Knoxville, TN, 2004  
M.S., Agricultural and Extension Education

University of Tennessee, Knoxville, TN, 2001  
B.S., Agricultural Economics and Business

**Prior instructional responsibility and other experiences relevant to assigned courses**

2019-Present Evaluation Specialist, Cooperative Extension Service Assistant Professor, Department of Agricultural and Extension Education  
College of Agricultural, Consumer, and Environmental Sciences New Mexico State University

2017-2019 Assistant Professor, Evaluation Specialist  
Family Life and Youth Development College of Natural and Applied Sciences University of Guam

2014-2016 Director, Minnesota Youth Institute  
Coordinator, Youth Development and Community Engagement College of Food, Agricultural, and Natural Resource Sciences  
University of Minnesota

2008-2010 Program Coordinator, Agricultural Diversity Programs College of Agriculture and Life Sciences  
Iowa State University

2007-2008 Instructional Development, Brenton Center for Agricultural Instruction and Technology Transfer  
College of Agriculture and Life Sciences Iowa State University

2006-2008 Interim Distance Education Coordinator, Professor College of Agriculture, Cooperative Extension Service Tennessee State University

2004-2006 Extension Agent, 4-H Youth Development  
University of Extension, Institute of Agriculture University of Tennessee

**For graduate programs, document scholarship and research capability**

**PUBLICATIONS & PRESENTATIONS**

Ulery, A., Smith Muise, A., Carroll, K., Chamberlin, B., White, L., Martinez, P., Spears, L.,



Gleason, J. (2020). Impact of multimedia learning tools in agricultural science classes. *NaturalScience Education*. 49. <https://doi.org/10.1002/nse2.20011>.

Koundinya, V., Siegelin, S., Spears, L., Norris, A., Ghimire, N., Sanders, C., Elgeberi, N., & Mary Halbleib. (2023, April 26-29). Strategies to Face the Challenges of Evaluation Capacity Building When Working with Extension Professionals Not Trained in Evaluation. Association for International Agricultural and Extension Education, Guelph, Canada.

Elgeberi, N., Ghimire, N., Koundinya, V., Sayama, K., Sanders, C., Norris, A., & Spears, L. (2022, November 28-December 1). Using a regional evaluation capacity building model to strengthen evaluation practices: Experiences from Western Regional Evaluation Network. [Roundtable discussion]. National Association of Extension Program & Staff Development Professionals, Ft. Lauderdale, FL.

Siegelin, S., Spears, L., Ghimire, N., & Narine, L. (2022, November 7-12). Facing the challenges of evaluation capacity building when working with Extension Educators not trained in evaluation. [Panel discussion]. American Evaluation Association, New Orleans, LA.

#### GRANTS

Title: New Mexico Farm and Ranch Stress Assistance Network  
Funder: USDA/NIFA 2021-70035-35570  
Role: Co-PI Total: \$500,000

Title: Expanding IPM Extension and Education in New Mexico  
Funder: USDA/NIFA 2021-70006-35765  
Role: Co-PI Total: \$900,000

#### For doctoral programs, document faculty experience in directing student research

In addition to assisting grad students with their research, Dr. Spears had two experiences at the University of Minnesota that will be invaluable working with doctoral students in the program.

University of Minnesota

Chapter Advisor, Minorities in Agriculture and Natural Resources and Related Sciences (MANRRS), 2015-2016

Member, College of Food, Agricultural and Natural Resources, Diversity, and Inclusion Committee, 2015-2016

#### Documentation of department faculty support

AXED Faculty Support of PhD in Human Dimensions of Agriculture.docx

#### Curriculum Committee Approval

AXED PhD 2023 ACES Curriculum Committee Support Memo.pdf

#### Gray Associates Data

PHD Data.pdf

### NM Higher Education Department

#### Describe your institution's plan for periodic evaluation of program effectiveness. Include criteria that will be used to determine effectiveness.

The Human Dimensions of Agriculture (Education, Extension, Communications, or Innovation) PhD will be an interdisciplinary doctoral program administered by the NMSU Agricultural and Extension Education (AXED) faculty. The AXED faculty will manage admissions and oversee progress of students in the program and any curricular revisions. The faculty will work on reporting assessment of program outcomes as required by NMSU, as well as program statistics required for annual departmental reviews and periodic program reviews required for institutional accreditation; in negotiating workloads.

Due to the advanced nature of the program, the main criteria used to determine program effectiveness in terms of quality will be early career placements or advancements of students completing the program, research projects, with documentation of impact of the research, and documented community impact. NMSU uses Gray Associates to quantify real costs associated with different programs based on measurable inputs including faculty salaries, fractional workloads associated with programs, and credit hour production. This system will be used to measure costs effectiveness compared to other doctoral programs at NMSU. Other standard metrics that apply to all programs such as retention and time to degree will also be used.

AXED will do an extensive 3 year review using data for retention, graduation rate, job placement, and program costs. All students will be given exit interviews upon departure from the program either graduating or withdrawing. AXED will continuously evaluate the curriculum based on peer programs offerings and what current trends are dictating. At three years when the first class graduates, we will conduct an external review with nationally recognized faculty from similar programs and then again every five years.

**The proposed program must meet one or more specified needs within the state or region. Clear and convincing evidence must be provided of the reality and extent of such need.**

The proposed interdisciplinary PhD degree in the Human Dimensions of Agriculture is designed to provide doctoral students with a rigorous program of much-needed research infrastructure and advanced expertise in the collection and analysis of data to advance the social science of agriculture. Such a program is ideally suited to new problem solutions, interpretations, and understandings of issues impacting agriculture in New Mexico and the Western United States with broader implications globally.

"State officials support the need for this program by stating:"

Dr. Jon Boren, State Director for the New Mexico Cooperative Extension Service:

"The Cooperative Extensions Service in New Mexico would benefit greatly from this program as our Cooperative Extension agents are all employed as faculty of NMSU and this would allow for advancement in their Extension careers. As tenured faculty being able to earn a Ph.D., this would benefit both the individual agents and well as the clientele they serve in New Mexico.

There is extreme shortage of qualified individuals to move into administrative roles in the Cooperative Extension Service, both in New Mexico and throughout the nation. The supply does not meet the demand. As an example, in a recent search for an Associate Director of Extension at New Mexico State University, we had one qualified candidate to interview."

Mr. Gary Aycock, New Mexico Supervisor of Agricultural Education and State FFA Advisor:

"Agricultural Education is used across a wide range of agricultural settings and is constantly changing. Preparing students with the knowledge and skills to help design, maintain, and repair agricultural systems must be a critical component of Agricultural Education programs. Educators must be aware of the college and career opportunities in these areas to better stimulate educational student interest in pursuing these careers in the food, fiber, and protein agriculture industries nationwide. Qualified teachers are needed to successfully lead students through their educational experiences. However, many teachers lack the requisite preparation and resources to prepare students for today's and tomorrow's opportunities. This program will target and serve Agricultural Education educators, particularly those who come from non-traditional, underrepresented minority populations, with engagement in immersive, project-based educational techniques in various occupational fields. The students in this program will undergo high-quality instruction and receive numerous resources to take back to their local communities. The approach outlined in the Human Dimensions of Agriculture PhD program will address essential needs in our country, particularly in helping to combat the educational challenges facing rural New Mexico and America."

NMSU's PhD in the Human Dimensions of Agriculture aims to produce graduates who can excel in designing context specific investigations based on sound interdisciplinary theory and methods to identify and implement solutions to a wide range of professions. The doctoral program will train highly qualified scholars in research methods, critical communication, and pedagogical and project management skills needed to lead original research projects or impact studies in the social science aspect of agriculture.

**If the program fills a regional workforce need, describe collaboration between your institution and regional employers in the program development.**

The program objectives of the PhD in the Human Dimensions of Agriculture (HDA) are aligned with preparing students for mid-career advancement and senior level program and project administration in State Departments of Agriculture, the Cooperative Extension Service, the United States Department of Agriculture or any other agricultural agency dealing with public policy and agriculture. Given that many educational institutions, public agencies, non-profits and private firms are adopting internal procedures to promote greater diversity, equity and inclusion (DEI), we believe graduates from our proposed PhD program will be in an ideal position to assist employers in meeting this important goal. Research experience in the in the HDA drawing on foundations from education, extension, communications, and innovation will equip new professionals for leadership roles in promoting DEI within a variety of workplace environments at local, state, national, and global levels. For careers related to the social sciences of agriculture, this degree would be useful to those individuals interested in the fields of social development.

The need for this proposed PhD program and its potential impact of economic development is clearly expressed in the accompanying letters of support from the New Mexico Department of Agriculture, the New Mexico Cooperative Extension Service, the New Mexico Agricultural Leadership program, and the New Mexico State University College of Agricultural, Consumer and Environmental Sciences. Dean Rolando Flores in his letter of support notes how well our proposed program aligns with the university's strategic plan, LEADS 2025, particularly with the aim to "grow research and create activity and to help NMSU attain Carnegie R1 status in research. The program will also be welcomed outside of academia. Dr. Lisa R. Ramirez, director of the Office of Partnerships and Engagement, United States Department of Agriculture believes there are hundreds of mid-career USDA personnel who can benefit from this type of program.

This would be a collaborative effort with the New Mexico Cooperative Extension Service, the New Mexico Agricultural Education & FFA Association, the New Mexico Department of Agriculture, and the United States Department of Agriculture. All states in the Western Region of the US which include Arizona, Utah, Colorado, Wyoming, Montana, Idaho, California, Oregon, Washington, Alaska,

and Hawaii all have the Cooperative Extension Service, Departments of Agricultural Education/FFA, USDA stations, and Departments of Agriculture, all of which would benefit from a PhD program such as this.

**Identify where similar degree programs are offered by other public higher education institutions in New Mexico.**

The PhD in the Human Dimensions of Agriculture would be the only program of its kind in the State of New Mexico and there are no other programs similar to this one at any other public or private higher education institution in the Western United States. Land Grant Universities in the Western United States typically do not have the capacity to offer this type of graduate program. Texas Tech University has a similar PhD in Agricultural Communications and Education but is not a Land Grant institution and does not have the connection to the Cooperative Extension Service that we have at New Mexico State University with our Land Grant status.

Oregon State University has the only other PhD program in the Western United States which is a placed based or on-campus resident program. Dr. Jonathan Velez, Department Head of Agricultural Education and Agricultural Sciences strongly supports the development of the NMSU proposed PhD program. In his letter of support, he states "Recently, I had the opportunity to connect with NMSU faculty and was pleased to hear that the Department of Agricultural and Extension Education were considering a distance-based Ph.D. program. Every year when our department recruits graduate students we are asked "can this Ph.D. program be completed remotely?" Currently, there are no options, to my knowledge, where students can remain in their current jobs while completing a Ph.D. in agriculture and extension education. While place-based learning is still critical for our profession, it is rapidly becoming apparent that we need to adapt our model to meet the needs of current industry and extension professions who are interested in a Ph.D. but are unable to leave their job for 3-4 years and pursue an on-campus degree. Our university has been a leader in distance education, and I have seen remarkable growth in our current undergraduate degree and graduate certificates. I believe there is a strong market for a Ph.D. program and am excited to hear that NMSU is pursuing a distance degree program."

**If similar programs are offered at other public higher education institutions in New Mexico, provide a rationale for offering an additional program.**

Not Applicable

**Enrollment and Graduation Projections**

Student Type	Year 1	Year 2	Year 3	Year 4	Year 5
New Students	5	5	5	5	5
Continuing Students	0	5	10	10	10
Graduates	0	0	5	5	5

**Annual Retention Rate Target (%)**

100%

**Target 100% Graduation Rate (%)**

100%

**Target Job Placement Rate (%)**

100%

**Describe the faculty resources that are needed to initiate the program. Will any additional faculty be needed?**

No additional faculty will be required when the program begins as all classes are currently taught. We have received a commitment from the graduate school for two PhD assistantships and three PhD assistantships internally from the College of ACES to help initiate the program if approved.

The department of Agricultural & Extension Education will be adding two PhD faculty with joint appointments in Family and Consumer Science in 2023-2024. One will be focused on Career and Technical Education and the other will be working in the area of Artificial Intelligence in Agriculture working with robotics in Food Processing and Drones in Agriculture.

The New Mexico Cooperative Extension has proposed a new state specialist position that will have a 25% teaching appointment which will be another PhD added to our faculty that will be assigned to work with students in the area of Extension Education.

**Describe the library and other academic support resources that are needed to initiate the program. What, if any, additional resources will be needed?**

New Mexico State University maintains a library on the main campus. We requested David Irvin from the NMSU Library to undertake a collection development project for the Human Dimensions of Agriculture. We worked with David to identify essential journals and databases that this program will require in order for student success going forward. The majority of top tier research journals applicable to conducting research in each area of the Human Dimensions of Agriculture are readily available online. Some professional societies will require student membership to access which is very minimal, but many of the journals can be accessed at no cost. NMSU Library prepared a report in response to the College of ACES new program proposal for the PhD in HDA. This report assesses the Library's ability to support the program. No additional resources are being requested at this time.

The Library Impact Statement for the PhD in the Human Dimensions of Agricultural is attached with letters of support.

**Describe the physical facilities of the institution that will be used for the first five years of the program. Will additional space or modifications of existing space be required within the first five years of program operation.**

There will be no need to modify any of the physical facilities currently used by the Department of Agricultural and Extension Education in the College of Agricultural, Consumer and Environmental Sciences housed at New Mexico State University.

**Describe the institution's equipment and technological resources needed for the first five years of the program? What, if any, additional equipment will be needed?**

The only equipment needed will be computer technology for resident resident students which will be provided by the AXED Department.

**Describe any other operating resources needed to initiate the program.**

Any additional operating resources will be provided by the AXED Department.

**Are there existing external facilities that will be used? Have agreements been established to ensure use of the those facilities?**

Non Applicable

**Provide a clear analysis of the projected cost of the proposed program and the sources of funding that will support it for the first five years that the program will be offered. Include a discussion how any of the needed resources discussed in your attachment. This should be completed in collaboration with your institution's financial office.**

Budget-Information-for-new-PhD proposal in Human Dimensions of Agriculture.pdf

**Letters of Support**

Gary Aycock Letter of Support.pdf  
Jon Boren Letter of Support\_AXED Dept.pdf  
Jeff Witte Letter of Support New Mexico Dept of Agriculture.pdf  
Rolando Flores Letter of Support Phd.pdf  
Allen Malone Letter of Support.pdf  
Sherry Kollmann Letter of Support.pdf  
Kevin Lombard Letter to support AXED PhD Program.pdf  
Flinchbaugh Support Letter\_ HDA PhD Program.pdf  
Bob Mayberry PhD Support Letter.pdf  
LIBRARY IMPACT STATEMENT Human Dimensions\_6\_30\_23.pdf  
Dine' College Letter of Support.pdf  
Oregon State University Letter of Support.pdf  
NMSU -- NAAE Support Letter -- 2023 09-14.pdf  
ENMU Letter of Support for PhD.pdf

**Accreditation**

**Is the program seeking specialized accreditation?**

No

**Is specialized accreditation required for licensure or practice in the program?**

No

**Has the program already obtained the appropriate specialized accreditation? If so, attach a copy of the letter from the agency granting accreditation?**

No

**If the program has not yet obtained accreditation but has begun the process of seeking or plans to seek specialized accreditation, specify the name of the agency and provide the time-line for completing the process.**

Non-Applicable

**If the program does not plan to seek specialized accreditation, provide a rational for not-seeking accreditation here. (if there is not a specialized accrediting organization for this program, indicate so as your rationale).**

Interdisciplinary PhD programs in the social sciences of agriculture are not accredited.

**If the program includes any of the following, explain how it will ensure that student work and levels of knowledge competencies achieved will be comparable to those achieved through traditional formats: (Award credit for prior learning; use of compressed time frames; use of on-line deliver; inclusion of accelerated formats; or other approaches to learning.)**

Non-Applicable

**Will the program be part of a contractual or consortial arrangement (yes/no, explain)?**

No

**If the program is planning any involvement by external organizations (other than from accredited higher education institutions) in the key operations as identified below, provide the information as requested.**

Type of Involvement	Name of External Organization	Percent of Involvement
Course placement and advising of students	Non-Applicable	0
Design and oversight of curriculum	Non-Applicable	0
Direct instruction and oversight	Non-Applicable	0
Other support for delivery of instruction	Non-Applicable	0
Recruitment and admissions of students	Non-Applicable	0

**Briefly describe the planning process for determining the need for this new program, including the role of faculty in the planning and approval process.**

NMSU has had historical interest in providing advanced graduate training in the agricultural sciences in the STEM disciplines. Momentum behind the current proposal coincided with NMSU LEADS 2025 strategic plan development. LEADS 2025 identifies PhD degrees and research expenditures in Humanities and Social Sciences as playing key roles in elevating the status of the institution and thereby the opportunities for its graduates. An internal call for PhD proposals was sent out in early 2023 from the College of ACES. Dr. Steve Frazee, Department Head of AXED since January of 2020 had a successful track record of establishing the current PhD program of Agricultural Communications and Education at Texas Tech University in 2011. This program is currently ranked as one of the top two programs nationally alternating with Texas A&M University on a yearly basis for graduation numbers and program success. Dr. Frazee was also a member of the group from Texas Tech and Texas A&M that established one of the first joint doctoral programs offered at a distance in 2000 known as Doc @ Distance. Based on his experience, a faculty meeting of the AXED faculty was convened to discuss the framework and need for a PhD in the social sciences of agriculture at NMSU.

A preliminary proposal was presented to the Deans Department Heads Council in March and received unanimous approval to move forward. The AXED faculty continued the proposal development using the Texas Tech PhD as a model while meeting with several potential stakeholders of the program including the New Mexico Cooperative Extension Service, New Mexico Agricultural Leadership program, the New Mexico Agricultural Education/FFA Association, the New Mexico Department of Agriculture, and the United States Department of Agriculture on the need and potential for such a program. Carol Flinchbaugh, Interim Associate Dean, NMSU Graduate School and Sherry Kollmann, Associate Vice Chancellor, NMSU Digital Learning were both consulted and included in the development of the proposal. All faculty in the AXED Department were supportive of the proposal and approved the final draft when submitted.

**Describe the process for assessing and improving student learning in the proposed program.**

PhD students in the Human Dimensions of Agriculture program will be evaluated for academic and professional progress each year. Criteria will include committee membership, and timely coursework completion. Performance on qualifying, comprehensive, and final oral exams and participation in colloquia will be the basis to consider where and how learning outcomes can be improved. These outcomes will be reported through the standard mechanism that NMSU uses for annual assessment of outcomes for all of its academic programs that do not have separate, specialized accreditation.

Teaching activity (GTA), research activity (GRA), professional conference presentations, publications, and external and internal research awards will be considered as products for which target goals can be set. Employment/career advancement will be considered as broad measures of quality outcomes and early career mentorship will be sought. All of these aspects of assessing learning and outcomes will be managed by the AXED faculty. Numerical data that will provide context for the annual formative assessments will include data on each incoming student, including numbers of applicants, acceptances and matriculations, and cumulative transfer credits accepted for each entering student. Level and type of funding for each student receiving an assistantship will be included. A summative evaluation of the program will be done in year five. Program Outcomes will be evaluated using the student PhD dissertations and results of Final Oral Examinations.

**Describe the process for assessing and improving student persistence and completion, in the new program.**

Persistence will be evaluated annually in depth for the first three years of the program.

Students will be recruited holding a Master's degree in the same or related discipline. They will enter the program and establish their graduate committee by the end of their first semester. The committee chair and committee members will provide advising and mentorship each semester and ensure a steady path to completion. As with any doctoral degree, students will work closely with members of their graduate committee.

Students will also meet non curricular examination requirements required by the NMSU Graduate School which include:

- PhD Qualifying Exam
- Proposal Hearing
- Comprehensive Exam with Advancement to Candidacy
- Final Oral Examination (Dissertation Defense)

The AXED faculty will specifically discuss at least annually, on a per student basis: (1) in cases of any student leaving the program before completing, the context that led to this result, (2) cases in which a student is not making timely progress towards degree

completion and (3) cases in which performance of a continuing student is marginal. In cases (2) and (3) possible interventions specific to the student will be considered.

**If any of the institution's accreditation relationship (including other regional, specialized, or national accrediting agencies) are currently under or recommended for a negative status or action (e.g., withdrawal, probation, sanction, warning, show-cause, etc.)**

Non-Applicable

**If the institution is undergoing or facing substantial monitoring, special review or financial restrictions from the U.S. Department of Education or other federal or state government agencies.**

Non-Applicable

**If the institution's senior leadership or board membership has experienced substantial resignations or removals in the past year.**

NMSU had several leadership changes since 2022. President John Floros resigned in January of 2022 and Chancellor Arvizu assumed the joint role of Chancellor of the NMSU System and Presidency of the Las Cruces campus. Chancellor Arvizu was not renewed by the Board of Regents in 2023 and left on April 7, 2023. Former NMSU President Jay Gogue was appointed to serve as the university's interim chancellor while the search for the university's next permanent chancellor takes place. On April 17, 2023, Alan Shoho became the Provost for NMSU replacing interim Provost Dorothy Campbell who was appointed in the role when Provost Carol Parker was terminated in 2022. In the past 16 months, the three top executives have either resigned or been terminated at NMSU which is substantial for any university.

**If the institution is experiencing financial difficulty through conditions, such as, a currently declared state of exigency, a deficit of 10% or more, a default or failure to make payroll during the past year, or consecutive deficits in the two most recent years.**

Non-Applicable

## **Institution Specific Information Area**

**Primary target audience for the program (e.g., full#time, part#time, traditional college age, working adults, transfer students, military personnel, or particular ethnic group)**

The PhD in the Human Dimensions of Agriculture will be both full-time resident students and part-time mid-career working professionals or military personnel who continue to serve while working on the advanced degree. AXED receives about three to four inquiries per month from international students asking about a PhD in Extension. AXED currently has a project with Dine' College on the Navajo Reservation in Northwest New Mexico and Northeast Arizona which provides funds for faculty and tribal members to pursue advanced degrees. As a Hispanic Serving Institution we are focused on the recruitment of Hispanics and other minority groups for this program. The program will be offered as a traditional face to face program but will be hybrid because all classes will be offered online to accommodate place bound students throughout New Mexico. If and when the program expands to the Global Campus, Dr. Sherry Kollmann, Associate Vice Chancellor for Digital Learning will provide two Post-Doc positions to assist with teaching to give faculty more time working with PhD students on research and dissertation writing.

**How does the proposed program align with the department, college and university mission?**

NMSU's Strategic Plan is LEADS 2025, is a living document see <https://leads2025.nmsu.edu/>

LEADS is structured such that each academic college and department is to maintain its own corresponding strategic plans that align with those of the institution.

LEADS 2025 has six major goals, addressing:

1. Enhance Student Success and Social Mobility
2. Elevate Research and Creativity
3. Amplify Extension and Outreach
4. Build a Robust University System.
5. Building an Online Global Campus
6. Build, Elevate, and Strengthen Sustainable Systemwide Equity, Inclusion and Diversity Practices

This proposal and AXED feature prominently in the Objectives under Goal 2 which are, broadly, 2.1 and 2.3 to address and amplify the impact of research findings addressing local and global challenges, and 2.2 and 2.4 to intentionally grow research and creativity in the Humanities and Social Sciences, promote international collaboration and amplify the impact of research on society and the economy. Growing non-STEM research expenditures and increasing PhDs in the Humanities and Social Sciences are the top two current priorities listed under Goal 2. Currently the College of ACES does not offer a PhD in the social sciences but has eight academic departments with four departments in the STEM Sciences and four departments in the social sciences. There are multiple PhD's in the STEM sciences currently offered, which magnifies the need for PhD's in the social sciences. NMSU, as part of its commitment to optimizing academic offerings and engaging in high impact practices (LEADS Goal 1, Objectives 1.2 and 1.4) it is committed to launching and growing interdisciplinary PhD's. Goal 5 is important as this degree will contribute to the building of the Global Campus.

**Discuss how admissions criteria and strategies will recruit a diverse student body?**

As a PhD program, the Human Dimensions of Agriculture will target graduate students who wish to pursue a terminal degree in the Social Sciences of Agriculture. This interdisciplinary program differentiates itself from more traditional disciplinary PhD programs by

servicing a dual population of resident students and place-bound students through distance delivery. We believe that this dual system will provide for a more diverse population of students. Targeted students will typically be seeking mid-career advancement or a career as a university faculty. The program will develop combinations of methods, analysis, and content focus suitable as preparation for working in agriculture and the people who benefit from agriculture. The focus areas of the program make it particularly appealing to gen-Z students who value their own personal roles in social progress.

Currently NMSU's PhD programs are heavily focused in STEM. Increasingly, students seek opportunities to continue beyond a master's to a PhD at the same institution and many AXED graduates would continue to a PhD at NMSU if one were offered. We aim at attracting a sustainable enrollment of about 15 students, with an annual enrollment of about 5 new students. The fact that NMSU is one of the original Hispanic Serving Institutions should be an advantage in the recruitment of minority and underrepresented populations.

**What controls are in place to ensure that the information presented to all constituencies in advertising, brochures, and other communications will be accurate?**

One of the duties of the AXED Faculty for the PhD in the Human Dimensions of Agriculture would be to maintain a web page for the program, in collaboration with the NMSU Graduate School, and develop promotional materials that comply with NMSU standards with the help of NMSU Marketing and Communications.

### **Student Records Office Uploads**

**HLC wants CIP Code information that is currently being offered at both the institutional and degree level for 4-digit and 2-digit CIP codes for all new programs. This information will be provided by the University Student Records office and added to the form during the HED submissions workflow step.**

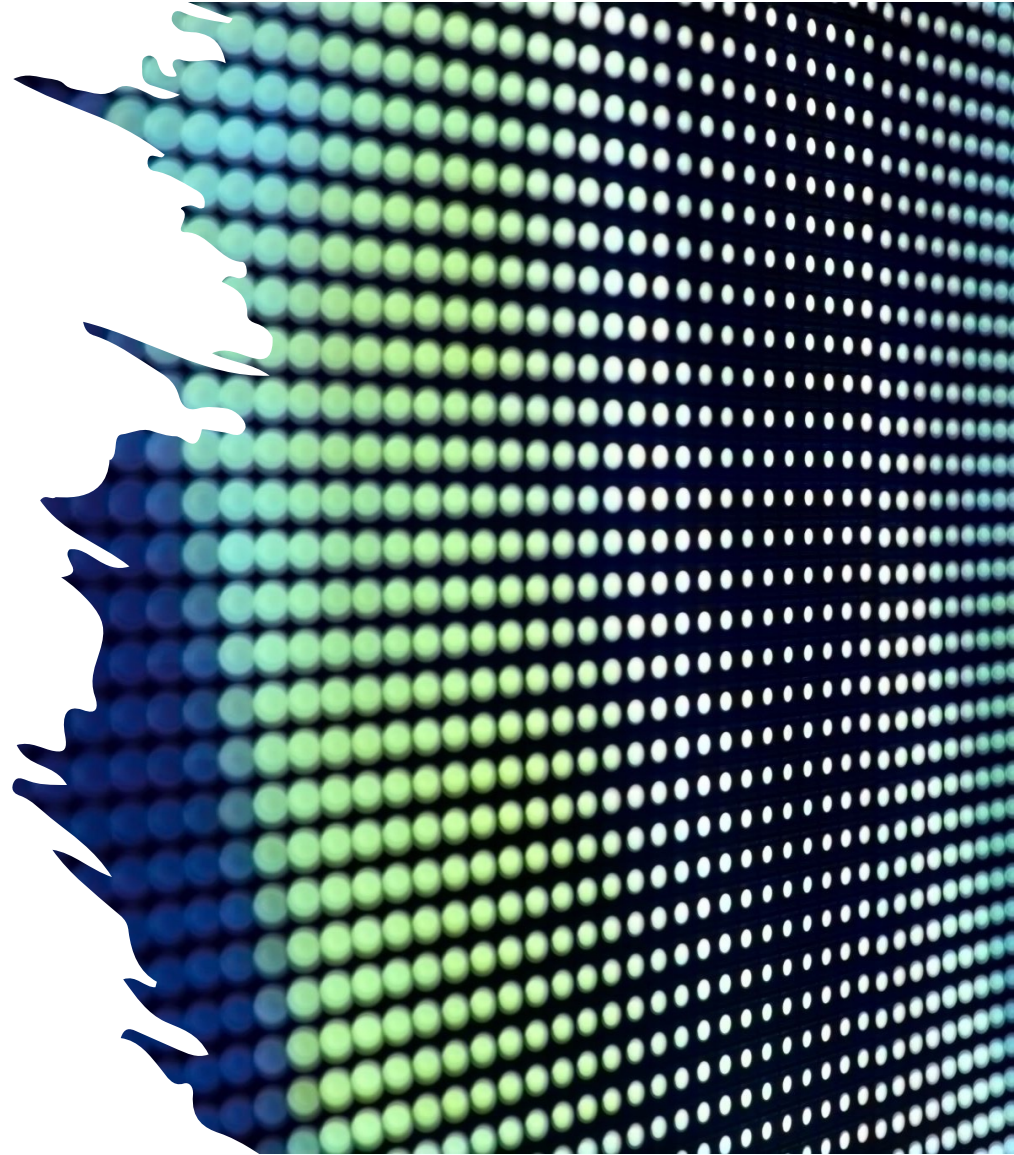
#### **Reviewer Comments**

**Joe Lakey (jlakey) (Fri, 15 Sep 2023 22:20:17 GMT):** Rollback: Per UPAC 08/17/23, revisions required


**Gabrielle Martinez (gdmart) (Wed, 21 Feb 2024 15:08:04 GMT):** Rollback: Rollback: UPAC edits requested.

Key: 982

# 13.1301 - Data for New Ph.D Program Proposals





- **Overall Program Ranking**
  - **Program Summary**
  - **Program Scorecard National, Western Market**
  - **Completion Volume**
  - **State and Degree level Program completions**
  - **Schools offering the program**
  - **Enrollment by State**
- 
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# Overview of O1 CIP Programs- National

CIP Market: National Award Level: Doctoral Current Progra... 2 Digit CIP 4 Digit CIP

Percentiles by CIP
Scores by CIP
Scores Stacked Bar Chart
Percentiles & So

Percentiles by CIP  
Double-click Field headers to change sorting.

CIP	Total Percentile	Student Demand Percentile	Competitive Intensity Percentile	Employment Percentile	Degree Fit Percentile
01.1277 Soil Sciences, Other	38	72	19	50	72
01.8101 Veterinary Sciences, General	61	1	6	75	100
01.0907 Poultry Science	61	3	29	50	72
01.0905 Dairy Science	59	41	92	8	100
01.0102 Agribusiness/ Agricultural Bus. Ops.	59	50	50	79	29
01.0902 Agricultural Animal Breeding	53	0	19	50	72
01.0299 Agricultural Mechanization, Other	38	7	50	50	29
01.0509 Farrier Science (Equine Hoof Care)	38	7	50	50	29
01.0899 Agricultural Public Services, Other	38	7	50	50	29
01.1202 Soil Chemistry and Physics	38	7	50	50	29
01.8104 Small/Companion Animal Surgery & Med	38	7	50	50	29
01.8103 Large/Food Animal & Equine Surg'y and Med	38	7	50	50	29
01.8201 Veterinary Admin. Services, Gen'l	38	7	50	50	29
01.8399 Vet/Animal Health Tech, Other	38	7	50	50	29
01.1099 Food Science and Tech, Other	35	7	19	50	29
01.0701 International Agriculture	35	1	50	50	29
01.0101 Agricultural Business/ Mgmt, General	31	1	19	27	29
01.9999 Agriculture & Ag. Operations, Other	30	61	92	75	28
01.0801 Agricultural & Extension Education Svcs	27	1	19	0	100
01.0000 Agriculture, General	26	72	97	50	7

Total Percentile 0 20+ 40+ 70+ 90+ 95+ 98+ 100

**Total Score** -53 -14 6 15 27 33 42 67

# Overview of O1 CIP Programs- West

Export PDF Support

CIP  Market: West Region  Award Level: Doctoral  Current Progra...  2 Digit CIP  4 Digit CIP

Percentiles by CIP 
  Scores by CIP 
  Scores Stacked Bar Chart 
  Percentiles & Scores by CIP

**Percentiles by CIP**  
(Double-click Field headers to change sorting.)

CIP	Total Percentile	Student Demand Percentile	Competitive Intensity Percentile	Employment Percentile	Degree Fit Percentile
01.0701 Animal Sciences, General	70	85	47	44	72
01.1103 Horticultural Science	71	74	91	12	100
01.0308 Agroecology and Sustainable Agriculture	69	8	17	32	100
01.1001 Food Science	66	77	17	12	100
01.0907 Poultry Science	66	8	50	50	72
01.0904 Animal Nutrition	66	8	50	50	72
01.1002 Food Technology and Processing	66	8	50	50	72
01.8108 Veterinary Pathology/ Pathobiology	66	8	50	50	72
01.8110 Veterinary Preventive Med, Epidemiology, & Public Health	66	8	50	50	72
01.8109 Veterinary Physiology	66	8	50	50	72
01.8106 Veterinary Infectious Diseases	66	8	50	50	72
01.8101 Veterinary Sciences, General	62	0	8	80	100
01.1102 Agronomy and Crop Science	60	8	50	17	100
01.0902 Agricultural Animal Breeding	60	1	50	50	72
01.0801 Agricultural & Extension Education Svcs	58	8	56	14	100
01.0905 Dairy Science	58	8	50	14	100
01.1299 Soil Sciences, Other	58	3	17	50	72
01.1104 Agricultural & Horticultural Plant Breeding	55	1	17	50	72
01.0299 Agricultural Mechanization, Other	37	8	50	50	29
01.0509 Farrier Science (Equine Hoof Care)	37	8	50	50	29

Total Percentile	0	20+	40+	70+	90+	95+	98+	100
<b>Total Score</b>	-54	-15	5	14	25	32	39	68

# 13.1301 Agricultural Teacher Education - National

CIP	Market: National	Award Level: Doctoral	Current Progra...	2 Digit CIP	4 Digit CIP																																																																																																																														
<div style="display: flex; justify-content: space-between;"> <span>Percentiles by CIP</span> <span>Scores by CIP</span> <span>Scores Stacked Bar Chart</span> <span>Percen</span> </div> <p><b>Percentiles by CIP</b> (Double-click Field headers to change sorting.)</p> <table border="1"> <thead> <tr> <th>CIP</th> <th>Total Percentile</th> <th>Student Demand Percentile</th> <th>Competitive Intensity Percentile</th> <th>Employment Percentile</th> <th>Degree Fit Percentile</th> </tr> </thead> <tbody> <tr><td>13.1202 Elementary Education and Teaching</td><td>94</td><td>91</td><td>2</td><td>99</td><td>50</td></tr> <tr><td>13.1315 Reading Teacher Education</td><td>93</td><td>91</td><td>19</td><td>79</td><td>100</td></tr> <tr><td>13.0404 Educ./Instruct./ Curriculum Supervision</td><td>93</td><td>85</td><td>97</td><td>83</td><td>100</td></tr> <tr><td>13.0601 Educational Evaluation and Research</td><td>93</td><td>85</td><td>97</td><td>79</td><td>100</td></tr> <tr><td>13.0407 Community College Education</td><td>92</td><td>91</td><td>19</td><td>75</td><td>100</td></tr> <tr><td>13.1312 Music Teacher Education</td><td>90</td><td>89</td><td>13</td><td>79</td><td>100</td></tr> <tr><td>13.0411 Superintendency and Ed System Admin</td><td>89</td><td>85</td><td>19</td><td>75</td><td>100</td></tr> <tr><td>13.0901 Social/ Philosoph. Foundations of Education</td><td>89</td><td>82</td><td>50</td><td>75</td><td>100</td></tr> <tr><td>13.1311 Math Teacher Education</td><td>89</td><td>79</td><td>19</td><td>83</td><td>100</td></tr> <tr><td>13.0406 Higher Education/ Higher Education Admin</td><td>85</td><td>97</td><td>0</td><td>75</td><td>100</td></tr> <tr><td>13.1319 Technical Teacher Education</td><td>85</td><td>85</td><td>97</td><td>21</td><td>100</td></tr> <tr><td>13.1299 Teacher Educ., Specific, Other</td><td>83</td><td>79</td><td>29</td><td>31</td><td>100</td></tr> <tr><td>13.0699 Educational Assessment/ Research, Other</td><td>83</td><td>79</td><td>13</td><td>75</td><td>100</td></tr> <tr><td>13.1320 Trade and Industrial Teacher Education</td><td>83</td><td>61</td><td>50</td><td>79</td><td>100</td></tr> <tr><td>13.1206 Teacher Educ., Multiple Levels</td><td>83</td><td>95</td><td>4</td><td>79</td><td>50</td></tr> <tr><td>13.1205 Secondary Education and Teaching</td><td>83</td><td>85</td><td>29</td><td>88</td><td>50</td></tr> <tr><td>13.0403 Adult and Continuing Ed Admin</td><td>82</td><td>82</td><td>6</td><td>75</td><td>100</td></tr> <tr><td>13.0409 Secondary School Admin/ Principalship</td><td>81</td><td>77</td><td>9</td><td>75</td><td>100</td></tr> <tr><td>13.0410 Urban Education and Leadership</td><td>81</td><td>67</td><td>92</td><td>27</td><td>100</td></tr> <tr><td><b>13.1301 Agricultural Teacher Education</b></td><td><b>71</b></td><td><b>71</b></td><td><b>1</b></td><td><b>71</b></td><td><b>100</b></td></tr> </tbody> </table>						CIP	Total Percentile	Student Demand Percentile	Competitive Intensity Percentile	Employment Percentile	Degree Fit Percentile	13.1202 Elementary Education and Teaching	94	91	2	99	50	13.1315 Reading Teacher Education	93	91	19	79	100	13.0404 Educ./Instruct./ Curriculum Supervision	93	85	97	83	100	13.0601 Educational Evaluation and Research	93	85	97	79	100	13.0407 Community College Education	92	91	19	75	100	13.1312 Music Teacher Education	90	89	13	79	100	13.0411 Superintendency and Ed System Admin	89	85	19	75	100	13.0901 Social/ Philosoph. Foundations of Education	89	82	50	75	100	13.1311 Math Teacher Education	89	79	19	83	100	13.0406 Higher Education/ Higher Education Admin	85	97	0	75	100	13.1319 Technical Teacher Education	85	85	97	21	100	13.1299 Teacher Educ., Specific, Other	83	79	29	31	100	13.0699 Educational Assessment/ Research, Other	83	79	13	75	100	13.1320 Trade and Industrial Teacher Education	83	61	50	79	100	13.1206 Teacher Educ., Multiple Levels	83	95	4	79	50	13.1205 Secondary Education and Teaching	83	85	29	88	50	13.0403 Adult and Continuing Ed Admin	82	82	6	75	100	13.0409 Secondary School Admin/ Principalship	81	77	9	75	100	13.0410 Urban Education and Leadership	81	67	92	27	100	<b>13.1301 Agricultural Teacher Education</b>	<b>71</b>	<b>71</b>	<b>1</b>	<b>71</b>	<b>100</b>
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# 13.1301 Agricultural Teacher Education - West

Export PDF Support

CIP  Market: **West Region** Award Level: **Doctoral** Current Progra... 2 Digit CIP 4 Digit CIP

Percentiles by CIP 
  Scores by CIP 
  Scores Stacked Bar Chart 
  Percentiles & Scores by CIP

**Percentiles by CIP**  
(Double-click Field headers to change sorting.)

CIP	Total Percentile	Student Demand Percentile	Competitive Intensity Percentile	Employment Percentile	Degree Fit Percentile
13.1338 Environmental Education	50	59	24	50	29
13.1212 Int'l Teaching and Learning	50	50	50	50	29
13.1328 History Teacher Education	37	50	12	27	50
13.0203 Indian/ Native American Education	37	8	50	50	29
13.0608 Institutional Research	37	8	50	50	29
13.1016 Education - Traumatic Brain Injuries	37	8	50	50	29
13.1008 Education - Orthopedic/ Other Phys.	37	8	50	50	29
13.1214 College/ Postsec/ University Teaching	37	8	50	50	29
13.1337 Earth Science Teacher Education	37	8	50	50	29
13.1332 Geography Teacher Education	37	8	50	50	29
13.1304 Driver and Safety Teacher Education	37	8	50	50	29
13.1499 Teaching ESL or French, Other	37	8	50	50	29
13.1402 Teaching French as a Foreign Language	37	8	50	50	29
13.1004 Education - Gifted and Talented	36	8	50	19	50
13.1309 Education - Tech/ Industrial Arts	36	3	91	19	50
13.1339 Communication Arts and Lit Teacher Ed	36	3	50	50	29
<b>13.1301 Agricultural Teacher Education</b>	<b>34</b>	<b>8</b>	<b>91</b>	<b>17</b>	<b>100</b>
13.1401 ESL Language Instructor	34	83	91	4	50
13.0299 Bi/Multi- Lingual/ Cultural Educ., Other	34	8	50	17	50
13.0202 Multicultural Education	22	50	17	5	100

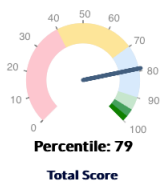
Total Percentile 0 20+ 40+ 70+ 90+ 95+ 98+ 100

**Total Score** -54 -15 5 14 25 32 39 68

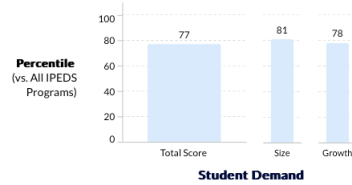
# 13.1301 Agricultural Teacher Education - National

CIP: 13.1301 Agricultural Teacher Education | Market: National | Award Level: Doctoral | Select Program | Support

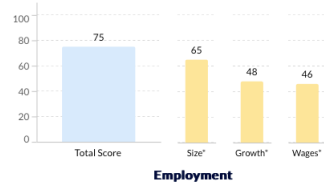
## 13.1301 Agricultural Teacher Education



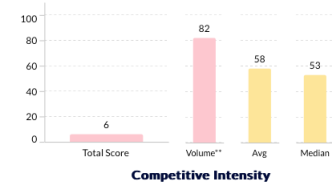
Total Score: The combined overall or category score percentile for the selected program.



Size: Number of annual conferred degrees from IPEDS for On-ground Students in Market and Online Students In-Market.  
Growth: The year-over-year unit and percentage change in number of completions



Size: BLS Current Employment: Bureau of Labor Statistics (BLS) estimate of the total number of jobs in directly-related occupations  
Growth: BLS 3-year historic growth trends (Compound Annual Growth Rate) in relevant employment  
Wages: Mean wages for program-related occupations, by geography, as reported by BLS



Volume: The total number of competitors reporting IPEDS completions located in the market selected.  
Avg: Average Completions by Local Institution: Total in-market on-campus completions / local institutions with graduates  
Median: Median Completions by Local Institution: Size of 50th-percentile on-campus program in the market

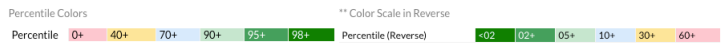
### CIP Description:

A program that prepares individuals to teach vocational agricultural programs at various educational levels.

Award Level	National Completions
Certificate	0%
Associates	2%
Bachelors	66%
Postbaccalaureate Cert.	3%
Masters	26%
Post-masters Certificate	0%
Doctoral	3%

Award Level	BLS Educational Attainment
No College	3%
Some College	2%
Associates	2%
Bachelors	30%
Masters	43%
Doctoral	22%

### Degree Fit



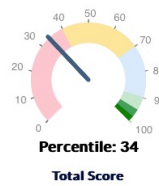
\* Direct Prep Employment Metrics. \*\* Color scale in reverse.



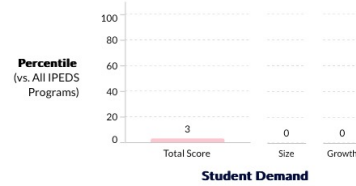
# 13.1301 Agricultural Teacher Education - West

CIP: 13.1301 Agricultural Teacher Education | Market: West Region | Award Level: Doctoral | Select Program | Support

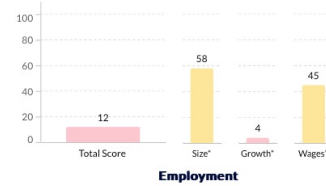
## 13.1301 Agricultural Teacher Education



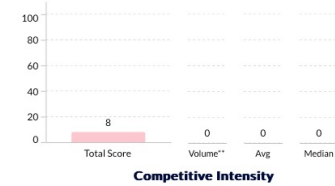
Total Score: The combined overall or category score percentile for the selected program.



Size: Number of annual conferred degrees from IPEDS for On-ground Students in Market and Online Students In-Market.  
Growth: The year-over-year unit and percentage change in number of completions.



Size: BLS Current Employment: Bureau of Labor Statistics (BLS) estimate of the total number of jobs in directly-related occupations.  
Growth: BLS 3-year historic growth trends (Compound Annual Growth Rate) in relevant employment.  
Wages: Mean wages for program-related occupations, by geography, as reported by BLS.



Volume: The total number of competitors reporting IPEDS completions located in the market selected.  
Avg: Average Completions by Local Institution: Total in-market on-campus completions / local institutions with graduates.  
Median: Median Completions by Local Institution: Size of 50th-percentile on-campus program in the market.

### CIP Description:

A program that prepares individuals to teach vocational agricultural programs at various educational levels.

Award Level	National Completions
Certificate	0%
Associates	2%
Bachelors	66%
Postbaccalaureate Cert.	3%
Masters	26%
Post-masters Certificate	0%
Doctoral	3%

Award Level	BLS Educational Attainment
No College	3%
Some College	2%
Associates	2%
Bachelors	30%
Masters	43%
Doctoral	22%

### Degree Fit

Percentile Colors



\*\* Color Scale in Reverse

\*\* Direct Prep Employment Metrics. \*\* Color scale in reverse.



# 13.1301 Agricultural Teacher Education - National

**CIP: 13.1301 Agricultural Teacher Education** | Market: National | Award Level: Doctoral | Select Program

Export PDF | Support

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**CIP: 13.1301 Agricultural Teacher Education** | Market: National | Total Score: 19 | Percentile: 79

**Student Demand**  
Score: 7 Percentile: 77

Category	Pctl	Criterion	Value	Score
Size	0	Google Search Volume (3 Months)**	NA	NS
	79	International Page Views (12 Month)	0	0
	81	New Student Enrollment Volume (12 Mo.)	60	0
	81	On-ground Completions at In-Market Institutions	28	2
	91	Online Completions by In-Market Students	5	4
81	Sum of On-ground and Online Completions	33	NS	
Growth	17	Google Search YoY Change (Units)**	NA	NS
	91	New Student Enrollment Vol. YoY Change (Units)	-6	-1
	91	Completion Volume YoY Change (Units)	6	2
	42	Google Search YoY Change (%)**	NA	NS
78	New Student Enrollment Vol. YoY Change (%)	-9%	0	
78	Completion Volume YoY Change (%)	22%	0	

**Employment\***  
Score: 1 Percentile: 75

Category	Pctl	Criterion	Value	Score
Size: Direct Prep	47	Job Postings Total (12 Months)**	2,042	0
	65	BLS Current Employment*	17,037	0
Size: ACS Bach. Outcomes	61	BLS Annual Job Openings*	1,193	0
	51	Job Postings Total (12 Months)**	2,057	0
Growth (Direct Prep)	75	BLS Current Employment*	18,286	1
	76	BLS 1-Year Historical Growth*	-0.4%	0
Saturation (Direct Prep)	48	BLS 3-Year Historical Growth (CAGR)**	0.4%	-1
	22	BLS 10-Year Future Growth (CAGR)**	0.2%	NS
Wages (Direct Prep)	45	Job Postings per Graduate*	1.8	-1
	71	BLS Job Openings per Graduate*	1.1	1
National American Community Survey Bachelor's Degree Outcomes	51	BLS 10th-Percentile Wages*	\$39,817	1
	46	BLS Mean Wages*	\$59,925	NS
National American Community Survey Bachelor's Degree Outcomes	59	Wages (Age < 30)	\$44,626	NS
	29	Wages (Age 30-60)	\$76,165	NS
National American Community Survey Bachelor's Degree Outcomes	62	% with Any Graduate Degree	45%	NS
	92	% with Masters	39%	NS
National American Community Survey Bachelor's Degree Outcomes	52	% with Doct./Prof Degree	7%	NS
	9	% Unemp. (Age <30)**	1%	NS
National American Community Survey Bachelor's Degree Outcomes	22	% Unemp. (Age 30-60)**	1%	NS
	0	% In Direct Prep Jobs	0	NS

**Degree Fit**  
Score: 11 Percentile: 100

Category	Pctl	Criterion	Value	Score
NHEBI Nat'l 2 Year		Cost Index**	NA	NS
		Student: Faculty Index	NA	NS

**National Completions by Level**  
Score: 7

Award Level	Completions (National)	Completions (Market)	Enrollment (Market)
Certificate	0%	0%	0%
Associates	2%	2%	6%
Bachelors	66%	66%	47%
Postbaccalaureate Certificate	3%	3%	0%
Masters	26%	26%	42%
Post-masters Certificate	0%	0%	0%
Doctoral	3%	3%	4%
Unknown	0%	0%	0%

**National Workforce Ed. Attainment**  
Score: 4

Award Level	BLS Educational Attainment
No College	1%
Some College	2%
Associates	2%
Bachelors	30%
Masters	43%
Doctoral	22%

**Competitive Intensity**  
Score: 0 Percentile: 6

Category	Pctl	Criterion	Value	Score
Volume of In-Market Competition	82	Campuses with Graduates**	7	4
	97	Campuses with Grads YoY Change (Units)**	2	-2
	94	Institutions with Online In-Market Students**	1	NS
In-Market Program Sizes	57	Average Program Completions	4	0
	53	Median Program Completions	3	0
	74	YoY Median Prog. Compl. Change (Units)	0	0
In-Market Saturation	74	YoY Median Prog. Compl. Change (%)	0	0
		Google Search * Cost per Click**	NA	NS
		Google Competition Index**	NA	NS
National Online Competition	95	Natl Online Institutions (Units)**	2	-2
	91	Natl Online % of Institutions	25%	NS
	82	Natl Online % of Completions	15%	NS

**CIP Description:**  
A program that prepares individuals to teach vocational agricultural programs at various educational levels.


**Total Percentile** | 0 | 20+ | 40+ | 70+ | 90+ | 95+ | 98+ | 100

**Total Score** | -53 | -14 | 6 | 15 | 27 | 33 | 42 | 67

\*\* Color Scale in Reverse

Percentile (Reverse) | -02 | 02+ | 05+ | 10+ | 30+ | 60+

\* - Google search, employment data and Jobs Per Grad Ratio do not filter by award level.  
 \*\* - Color scale in reverse.  
 NA - No data available (not currently tracked).  
 NS - Not Scored in Rubric (value = 0).  
 2Y - Associate & certificate programs only.  
 PCTL - Percentile.





# 13.1301 Agricultural Teacher Education - West

CIP: 13.1301 Agricultural Teacher Education | Market: West Region | Award Level: Doctoral | Select Program | Export PDF | Support

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**CIP: 13.1301 Agricultural Teacher Education** | **Market: West Region** | **Total Score: 3** | **Percentile: 34**

**Student Demand**  
Score: 0 Percentile: 3

Category	Pctl	Criterion	Value	Score
Size	0	Google Search Volume (3 Months)*	NA	NS
	0	International Page Views (12 Months)	0	0
	71	New Student Enrollment Volume (12 Mo.)	4	0
	0	On-ground Completions at In-Market Institutions	0	0
	0	Online Completions by In-Market Students	0	0
Growth	0	Sum of On-ground and Online Completions	0	NS
	12	Google Search YoY Change (Units)*	NA	NS
	12	New Student Enrollment Vol. YoY Change (Units)	-3	-1
	85	Completion Volume YoY Change (Units)	0	1
	20	Google Search YoY Change (%)	NA	NS
		New Student Enrollment Vol. YoY Change (%)	-43%	0
		Completion Volume YoY Change (%)	NA	NS

**Employment\***  
Score: -8 Percentile: 12

Category	Pctl	Criterion	Value	Score
Size: Direct Prep	46	Job Postings Total (12 Months)**	416	0
	58	BLS Current Employment*	2,560	0
	55	BLS Annual Job Openings*	189	0
Size: ACS Bach. Outcomes	50	Job Postings Total (12 Months)**	416	0
	74	BLS Current Employment*	4,166	1
Growth (Direct Prep)	12	BLS 1-Year Historical Growth*	-14.1%	-1
	4	BLS 3-Year Historical Growth (CAGR)*	-7.1%	-1
	26	BLS 10-Year Future Growth (CAGR)*	0.4%	NS
Saturation (Direct Prep)	37	Job Postings per Graduate*	1.6	-1
	49	BLS Job Openings per Graduate*	0.7	-1
Wages (Direct Prep)	44	BLS 10th-Percentile Wages*	\$39,940	-5
	45	BLS Mean Wages*	\$44,700	NS
National American Community Survey Bachelor's Degree Outcomes	59	Wages (Age < 30)	\$44,626	NS
	29	Wages (Age 30-60)	\$76,165	NS
	62	% with Any Graduate Degree	45%	NS
	92	% with Masters	39%	NS
	52	% with Doct./Prof Degree	7%	NS
	9	% Unemp. (Age <30)**	1%	NS
	22	% Unemp. (Age 30-60)**	1%	NS
0	% in Direct Prep Jobs	0	NS	

**CIP Description:**  
A program that prepares individuals to teach vocational agricultural programs at various educational levels.

**Degree Fit:**  
Score: 11 Percentile: 100

Category	Pctl	Criterion	Value	Score
NHEBI Nat'l 2 Year		Cost Index**	NA	NS
		Student: Faculty Index	NA	NS

**National Completions by Level**  
Score: 7

Award Level	Completions (National)	Completions (Market)	Enrollment (Market)
Certificate	0%	0%	0%
Associates	2%	0%	2%
Bachelors	66%	65%	47%
Postbaccalaureate Certificate	3%	3%	0%
Masters	26%	32%	50%
Post-masters Certificate	0%	0%	0%
Doctoral	3%	0%	1%
Unknown	0%	0%	0%

**National Workforce Ed. Attainment**  
Score: 4

Award Level	BLS Educational Attainment
No College	1%
Some College	2%
Associates	2%
Bachelors	30%
Masters	43%
Doctoral	22%

**Competitive Intensity**  
Score: 0 Percentile: 8

Category	Pctl	Criterion	Value	Score
Volume of In-Market Competition	0	Campuses with Graduates**	0	4
	93	Campuses with Grads YoY Change (Units)**	0	-2
	0	Institutions with Online In-Market Students**	0	NS
In-Market Program Sizes		Average Program Completions	NA	NS
		Median Program Completions	NA	NS
		YoY Median Prog. Compl. Change (Units)	NA	NS
		YoY Median Prog. Compl. Change (%)	NA	NS
In-Market Saturation		Google Search * Cost per Click**	NA	NS
		Google Competition Index**	NA	NS
National Online Competition	95	Natl Online Institutions (Units)**	2	-2
	91	Natl Online % of Institutions	25%	NS
	82	Natl Online % of Completions	15%	NS


**Total Percentile** | 0 | 20+ | 40+ | 70+ | 90+ | 95+ | 98+ | 100

**Total Score** | -54 | -15 | 5 | 14 | 25 | 32 | 39 | 68

\*\* Color Scale in Reverse

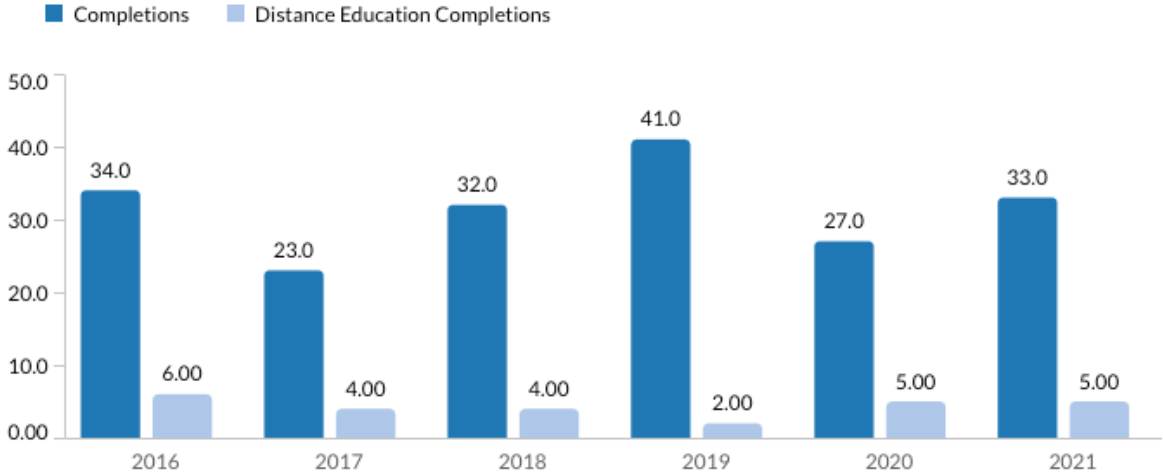
Percentile (Reverse) | <02 | 02+ | 05+ | 10+ | 30+ | 60+

\* - Google search, employment data and Jobs Per Grad Ratio do not filter by award level.  
 \*\* - Color scale in reverse.  
 - No data available/not currently tracked.  
 NA - Not Scored in Rubric (values < 0).  
 NS - Not Scored in Rubric (values < 0).  
 2.Y - Associates & certificate programs only.  
 PCTL - Percentile

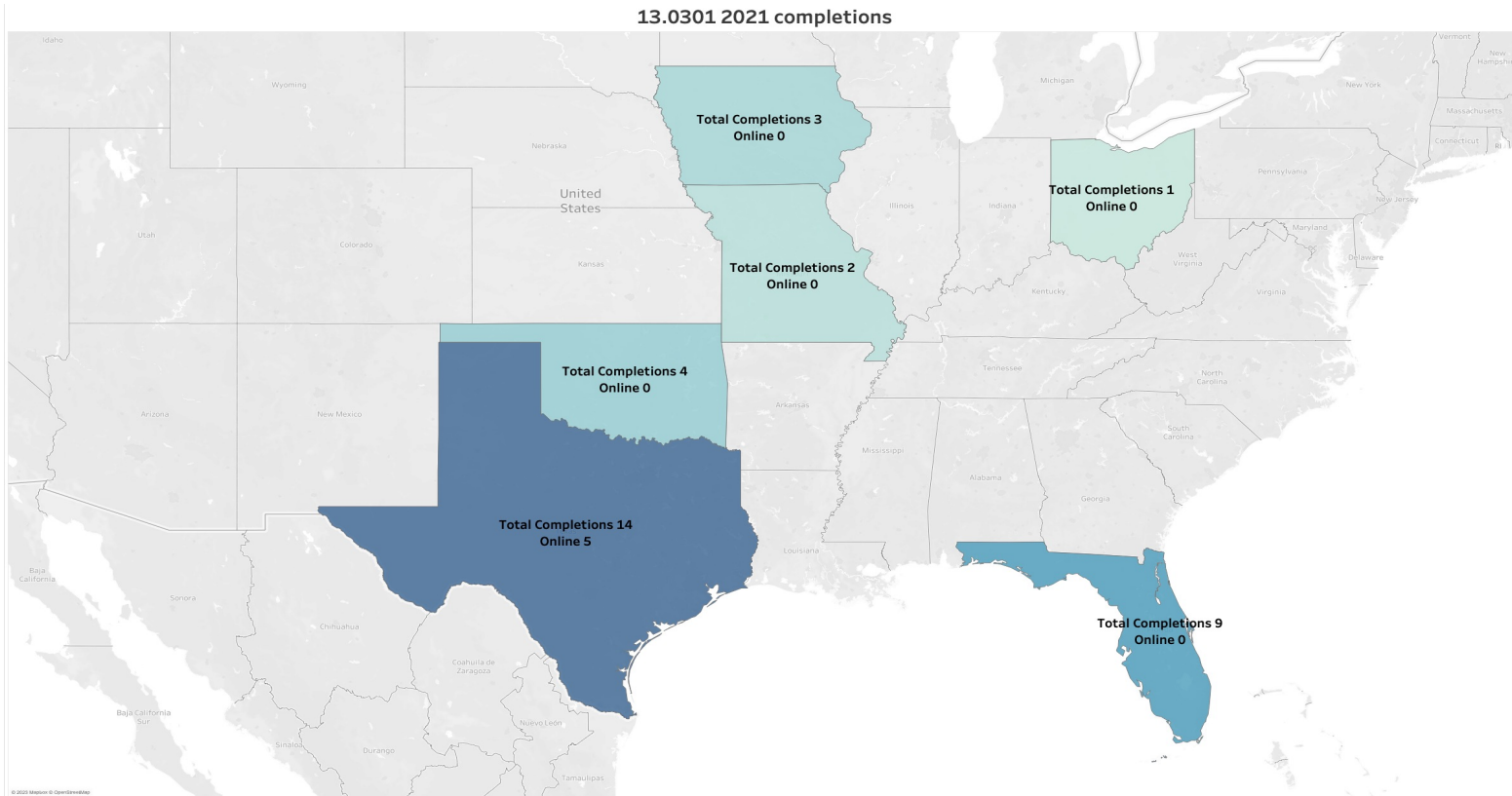


# 13.1301 Agricultural Teacher Education - National

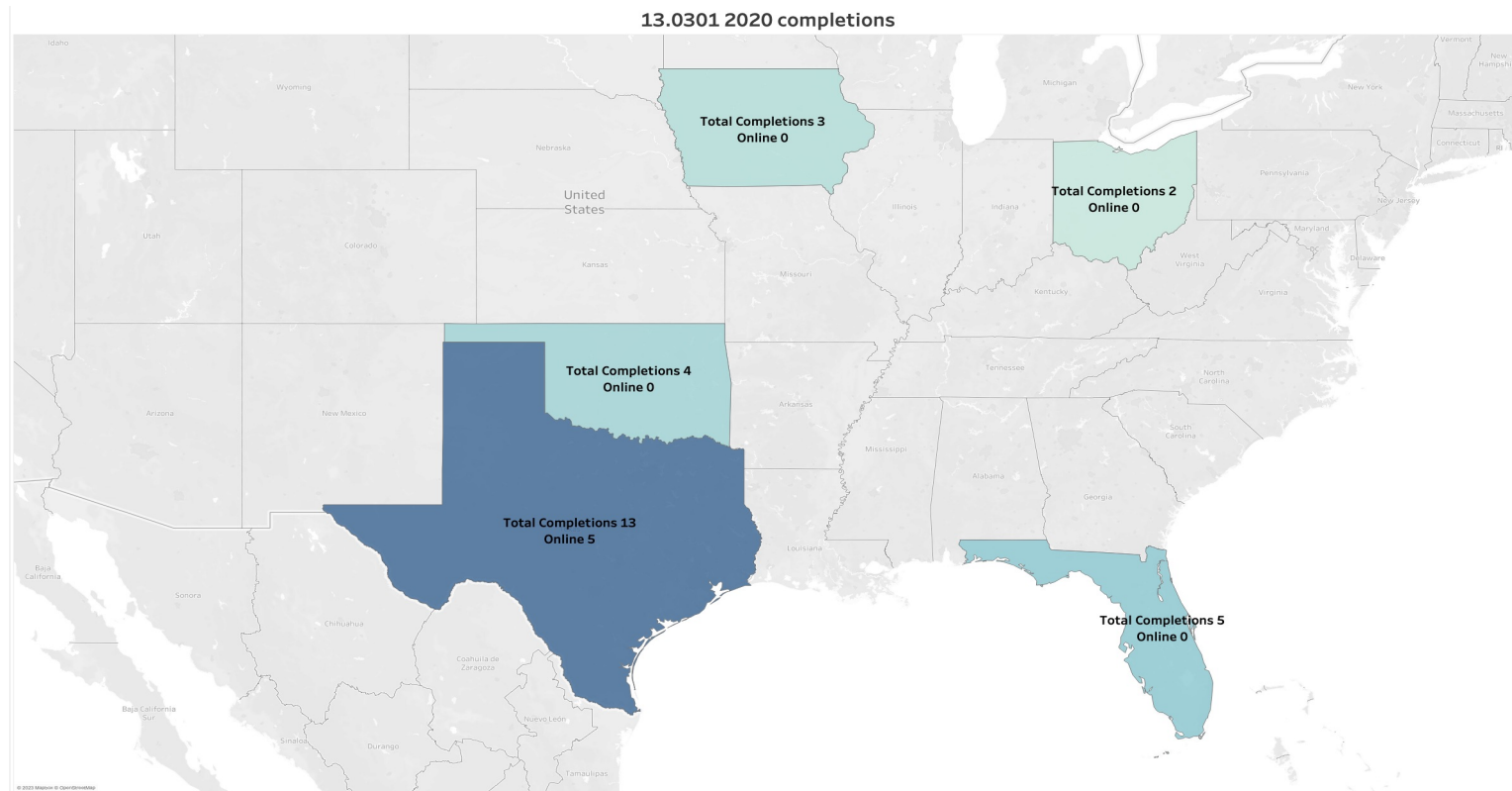
**Total Completions by In-Market Institutions**



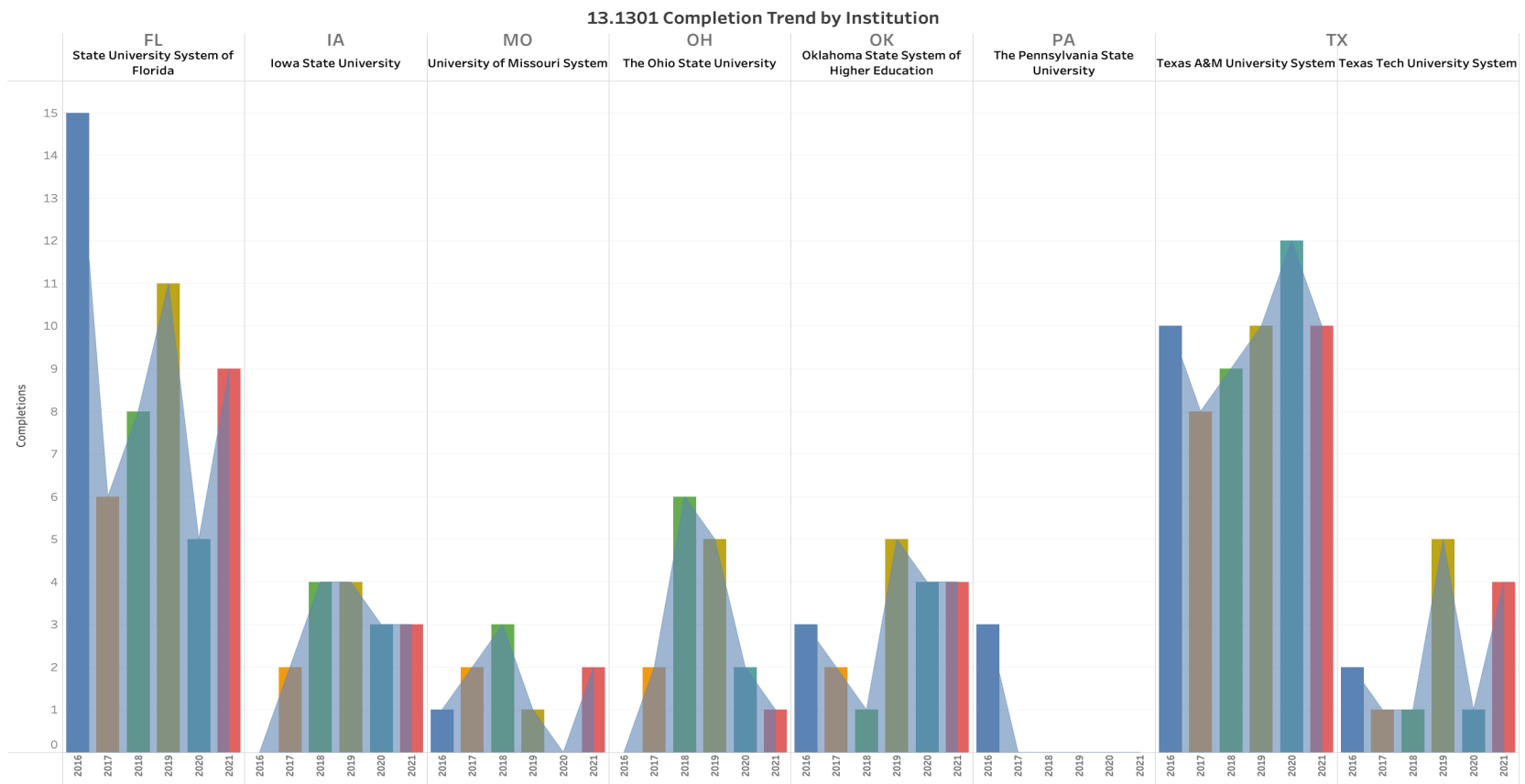
# 13.1301 Agricultural Teacher Education



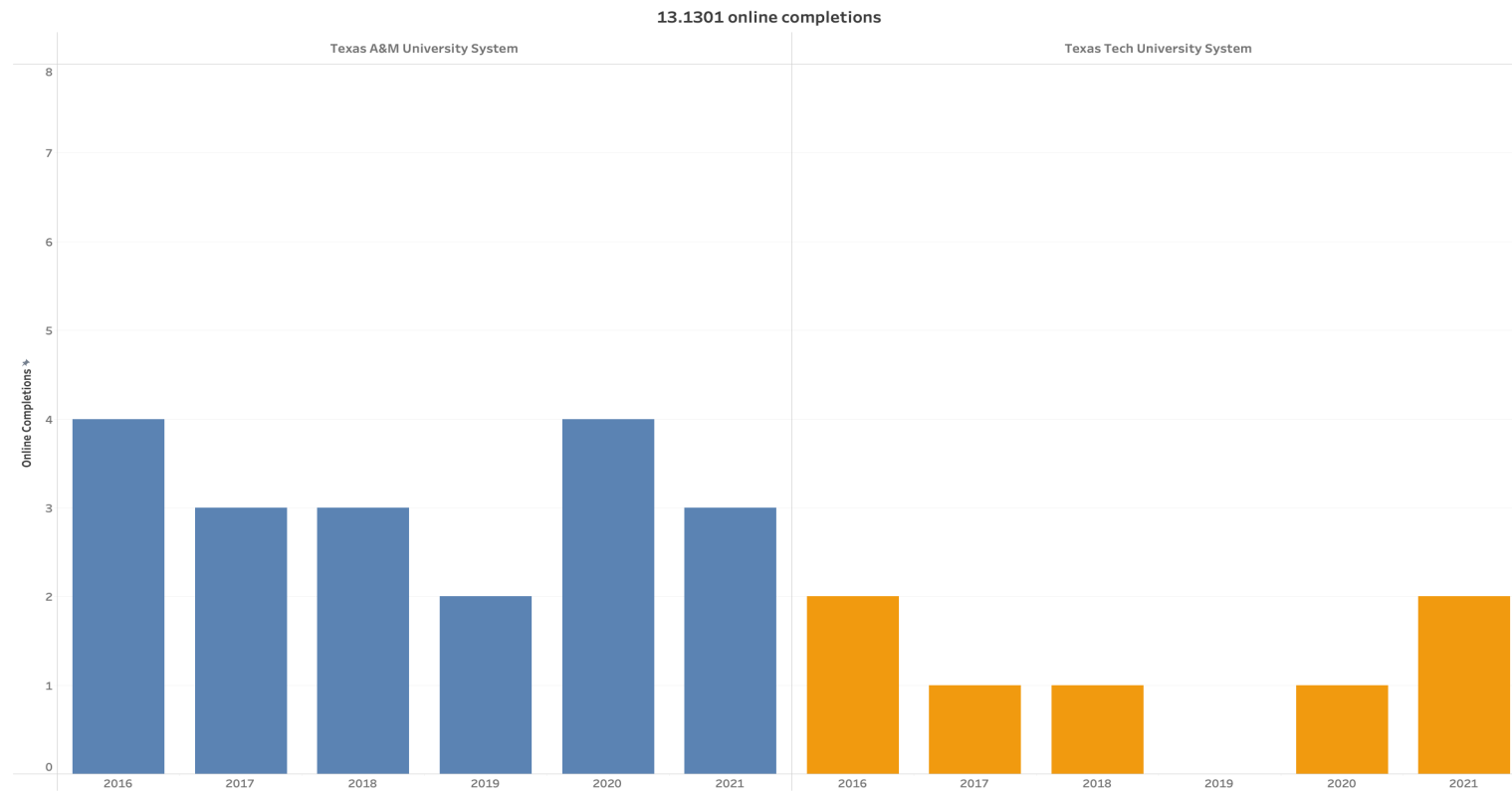
# 13.1301 Agricultural Teacher Education



# 13.1301 Agricultural Teacher Education

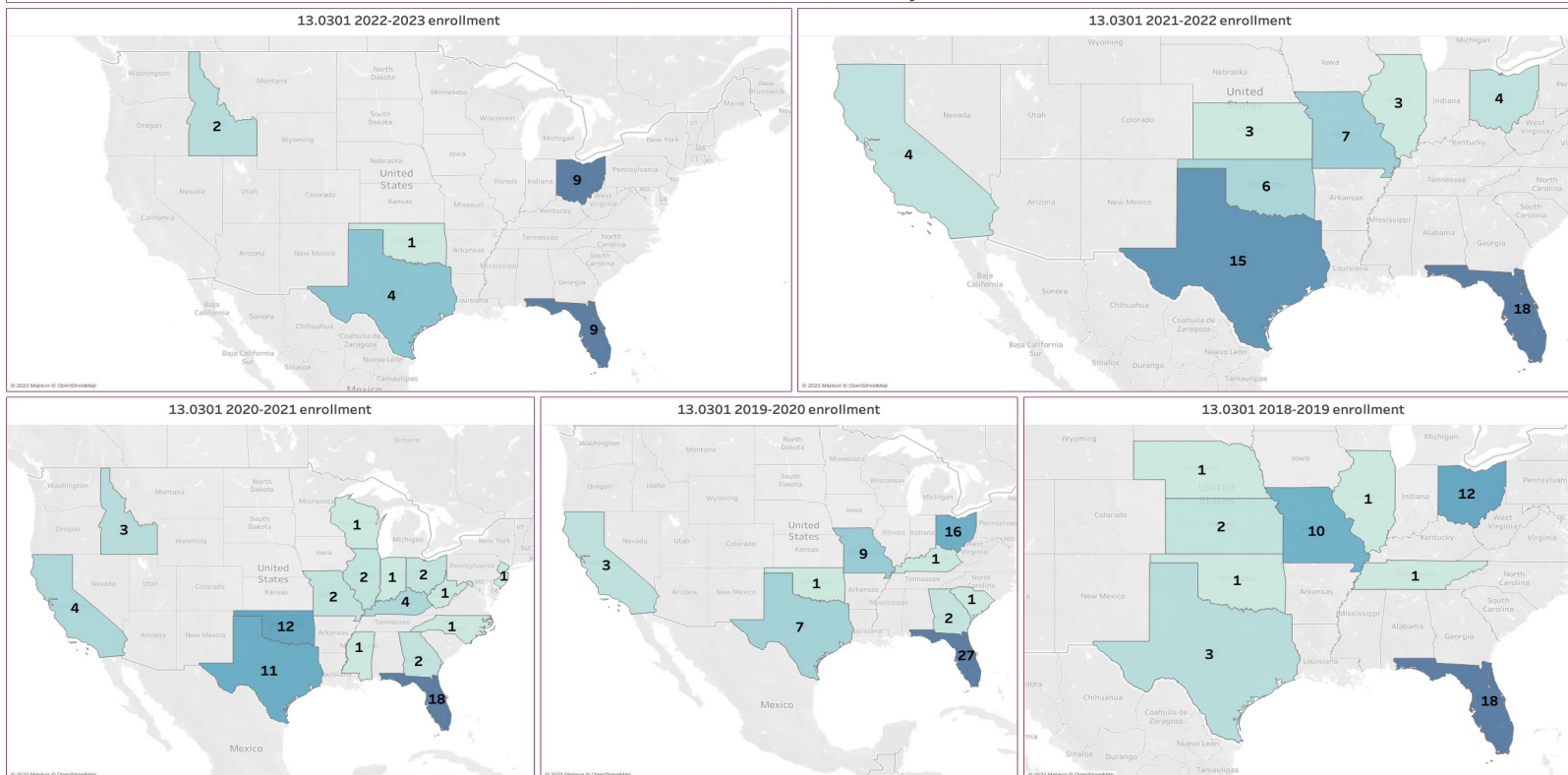


# 13.1301 Agricultural Teacher Education



# 13.1301 Agricultural Teacher Education

13.0301 Enrollment Trends by State



## **01.0801 Agriculture & Extension Services**

- Completion volume is seeing a gradual increase
- Only 5 schools have completions in the USA and No schools in west have seen any completions so far.
- High employment demand in the west. 1 year BLS historic growth is one of the highest at 122%

## **13.1301 Agriculture Teacher Education**

- Steady Completion Volume.
- Only 7 schools have completions in the USA and 0 in west so far.
- Less market demand in the west compared to national market.

## **01.0802 Agriculture Communication/Journalism**

- No School is offering this program.
- No completions in the past 5 years.



# 1 Summary of Costs and Benefits

## 1.1 Projected Costs

### 1.1.1 Additional Faculty Needed for the Program

No additional faculty is needed.

### 1.1.2 Additional Library Resources Needed for the Program

No new library resources are required to support the offering of this program. Library resources are currently available at the NMSU system. The resources are sufficient to support this program.

### 1.1.3 Additional Facilities, Equipment and Technological Resources

No new equipment is required to support the offering of this program. Equipment currently available at the participating departments within NMSU is sufficient to fully support the launch and initial phases of this program. As the program grows, it is expected that new equipment/funds will be required to ensure new/updated equipment.

### 1.1.4 New Graduate Assistantships Needed to Support the Program

Dr. Carol Flinchbaugh, Interim Associate Dean of the NMSU Graduate School pledged two PhD graduate assistantships to support the start-up of the program. The College of ACES currently provides three assistantships for Masters' students that will be converted to PhD assistantships when the program commences. We will include doctoral assistantships in future external grants submitted for funding. The AXED department currently have two grants which will support graduate assistantship for doctoral students. Faculty will include doctoral assistantship support in all future grant proposals. Organizations for future proposals include:

USDA-NIFA

USDA-NIFA-AFRI

USDA Hispanic Serving Institutions (HSI)

WSAER (USDA)

National Science Foundation (NSF)

New Mexico Department of Agriculture (NMDA)

Kellogg Foundation

## 1.2 Projected Benefits

### 1.2.1 Financial Benefit

The following table illustrates the total revenues in terms of tuition and fees conservatively estimated based on an average enrollment of 9 credit hours per fall and spring semesters based on resident graduate students paying \$345.46 per graduate credit hour in tuition.

<b>Program Year</b>	<b>Enrollment</b>	<b>Net Earnings</b>
1	5	\$31,091.00
2	10	\$62,183.00
3	15	\$93,274.00
4	15	\$93,274.00
5	15	\$93,274.00
<b>5-year Total</b>		<b>\$373,096.00</b>

*Table 1: Projected enrollment and earnings totals. No additional expenses required to fulfill program objectives and goals as explained in narrative*

### 1.2.2 Benefits to the State of New Mexico

New Mexico or any states in the western region of the U.S. currently do not offer a PhD program in the social sciences of agriculture. This is a challenge for students in the region wishing to pursue graduate degrees in this field beyond the masters' level. The absence of a doctoral degree in the social sciences of agriculture in New Mexico, leaves interested NMSU graduates and New Mexico residents to search for a program out-of-state. The PhD in the Human Dimensions of Agriculture is intended to provide to provide skills and experience to develop individuals ability to work with people and the complexities of agricultural sciences.

There are numerous agricultural agencies who would benefit greatly from this type of program. These benefits our outlined in the letters of support with the following two excerpts used for illustration.

Dr. Jon Boren, Associate Dean and Director of the New Mexico Cooperative Extension Service stated: The Cooperative Extensions Service in New Mexico would benefit greatly from this program as our Cooperative Extension agents are all employed as faculty of NMSU and this would allow for advancement in their Extension careers. As tenured faculty being able to earn a Ph.D., this would benefit both the individual agents and well as the clientele they serve in New Mexico. There is extreme shortage of qualified individuals to move into administrative roles in the Cooperative Extension Service, both in New Mexico and throughout the nation. The supply does not meet the demand. As an example, in a recent search for an Associate Director of Extension at New Mexico State University, we had one qualified candidate to interview. In order to work as a Specialist within the Cooperative Extension Services and provide content expertise at the state level, a doctoral degree in a related field is required.

Jeff Witte, Director-Secretary of the New Mexico Department of Agriculture added: NMSU is well positioned for this type of Ph.D. program and it is needed. New Mexico agriculture is one of the most diverse, not only in what we grow, but in who our producers are. As a state with the second oldest agricultural population in the nation, we will see a transition to the next generation in the future years. This live test bed will be a prime opportunity to train and educate our next generation of educators, researchers and extension specialists to better serve our diverse constituents. The additional education and experience received from the core curriculum will prepare and position NMSU students to appropriately serve our communities.

Dr. Kalynn Baldock, Department Chair of Agriculture, Food Science, and Kinesiology and Eastern New Mexico University in her letter of support: In New Mexico, there is no Ph.D. program for students focused on agricultural education, leadership, communications, and extension.

Students wishing to pursue a higher degree must leave the state of New Mexico. Formally, I was one of these students. Born and raised in New Mexico, I had to find one out-of-state when I began searching for doctoral programs. If an option had been available within the state, I would have been able to lessen some of the financial burden of obtaining my doctorate. By having a program here in the state of New Mexico, there is the possibility for more of these students to remain in the state. Having options within the state will help to alleviate some of the cost burden associated with going out of state to obtain a degree.

A successful program would be key to NMSU reaching Carnegie research status of R1. The four goals of NMSU's LEADS 2025 are fundamentally grounded in serving the broader interests of the state of New Mexico. NMSU is uniquely positioned to address issues within the Human Dimensions of Agriculture.

The National Association of Agricultural Educators in a report on the Job Outlook for Individuals with a PhD in Agricultural Education identified eight potential career paths and job outlook considerations:

1. **Academic Careers:** The demand for faculty positions in Agricultural Education can fluctuate, but there is a consistent need for educators and researchers in this field. Competition for tenure-track positions may be high, but opportunities exist in both teaching and research roles.
2. **Extension Education:** Agricultural extension agents and specialists play a crucial role in disseminating research-based information to farmers, ranchers, and the agricultural community. With a PhD, individuals have opportunities to lead extension programs, conduct applied research, and provide training and education to the agricultural workforce.
3. **Government and Regulatory Agencies:** State and federal government agencies often hire individuals with expertise in agricultural education to develop and implement agricultural policies, programs, and regulations.
4. **Nonprofit Organizations:** Nonprofit organizations focused on agriculture, sustainability, and rural development may employ individuals with a PhD in Agricultural education to lead educational initiatives, advocacy efforts, and research projects.
5. **Industry and Private Sector:** Some individuals with a PhD in Agricultural Education work in the private sector particularly in roles related to marketing, communications, and training. Companies involved in agricultural products and services may hire experts to educate employees, clients, and stakeholders.
6. **Consulting:** Another area for agricultural education PhD holders is to work as consultants, offering their expertise to various organizations, including farms, agricultural businesses, and government agencies. Consulting provides opportunities for a diverse range of projects and clients.
7. **Research Institutions:** Research institutions, such as agricultural experiment stations, think tanks, seek experts with advanced degrees to conduct research, analyze data, and publish findings that contribute to the advancement of agricultural knowledge.
8. **International Development:** PhD graduates in Agricultural Education many times pursue careers in international development, working with organizations like USAID to improve agricultural practices and education in developing countries.

All eight of the identified careers paths are applicable in the State of New Mexico, especially in regard to our location on the border and the opportunity for international development with Mexico and Central America.



LIBRARY IMPACT STATEMENT (New Program Proposal)  
LIBRARIAN'S ASSESSMENT

The Collections Coordinator along with the Department Head of Reference and Research Services will complete this form as requested, assessing library materials and collections as detailed below.

Program: Human Dimensions of Agriculture (Education, extension, communication & innovation) – Doctor of Philosophy

Department, College: Ag Extension Education; College of Agricultural, Consumer and Environmental Sciences

Faculty Member: Steven Fraze

Date returned to Faculty: June 30, 2023

Librarian Completing Assessment: David Irvin

Collection Management Officer: Mariaelena de la Rosa

\*\*\*

This report is in response to a request by Steven Fraze, Department Head and Professor in the College of Agricultural, Consumer and Environmental Sciences, on June 20, 2023.

David Irvin, head of Reference and Research Services, compiled this report based on input provided by Library staff and faculty. It covers monographic holdings, journal access options, databases, and additional support that the library can offer.

**NMSU Library Holdings for Subjects Related to Human Dimensions in Agriculture**

Division	Category	NMSU Holdings
Agriculture	General; Conservation of Natural Resources, Land Conservation; Plant Culture; and Wildlife Management	19,922
Business	Economic History & Conditions; Industries, Land Use, Labor; Special Industries & Trades, General; Statistics; and Writing	53,729
Education	Higher Ed; Special Aspects; and Theory & Practice	20,764
Sociology	Communities, Classes, Races; Human Ecology, Anthropogeography; and Sociology, General & Theoretical Totals	10,581
<b>TOTAL</b>		<b>104,996</b>

Data from OCLC WorldShare

## Subscriptions or access options of identified journals

The Library requested a list of journals that program managers perceive to be the essential journals in the area of study. The Library provides the following assessment of the list:

Title	NMSU Holdings	Publisher	H-index**	Note
<i>AAAE Conference Proceedings</i>	Hit or miss	Various parts of AAAE	N/A	Library does not subscribe to proceedings as a standing order.
<i>Agricultural Communications (OA)</i>	See below *	Elsevier	N/A	First issue due in September 2023
<i>Agriculture and Human Values</i>	1997 – 2022 (1 year embargo)	Agriculture, Food, and Human Values Society	86	One year embargo
<i>Career and Technical Education Research</i>	2005 - Current	Association for Career and Technical Education Research	N/A	-
<i>Journal of Agricultural Education</i>	1960-current	American Association of Teacher Educators in Agriculture	N/A	-
<i>Journal of Agricultural Education and Extension</i>	None	Taylor & Francis	33	Impact factor: 2.654
<i>Journal of Applied Communications</i>	1969 - current	Association for Communication Excellence in Agriculture, Natural Resources, and Life and Human Sciences (ACE)/DOAJ	N/A	Impact factor: 2.462
<i>Journal of Extension</i>	1963 - current	Extension Journal	35	Impact factor: 0.237
<i>Journal of Higher Education Outreach and Engagement</i>	1996 - current	Institute of Higher Education	15	SJR: 0.254 (substitute for Impact Factor)
<i>Journal of Human Sciences and Extension</i>	2013 - current	Mississippi State Univ./DOAJ	N/A	-
<i>Journal of International Agricultural and Extension Education</i>	1994 - current	Association for International Agricultural and Extension Education	10	-

<i>Journal of Leadership Education</i>	2002 - current	Association of Leadership Educators	N/A	-
<i>Journal of Natural Resources and Life Sciences Education</i>	1997 - 2012	American Society of Agronomy	N/A	Last volume published in 2012
<i>NACTA Journal</i>	2002 – current (1 year embargo)	North American Colleges & Teachers of Agriculture	N/A	-
<i>Natural Sciences Education</i>	2013 - current	American Society of Agronomy	11	SJR: 1.01 (Substitute for Impact Factor)
<i>Journal of Career and Technical Education</i>	1999 - current	Omicron Tau Theta	N/A	-

\*Note, for Journals published by Elsevier, if prior subscriptions existed, those journals can be accessed through Portico. Current Elsevier publications are available through Article Galaxy. To ensure your department has access to this tool, contact Katherine Terpis, associate dean of the NMSU Library.

\*\* H-index is a metric that tracks citation counts for journals. H-index values were retrieved from Scimago Journal & Country Rank, at scimagojr.com

### Information Delivery Services

Information Delivery Services (IDS) provides access to needed research information whether owned by the University, another NMSU campus, or another library/organization. Specific services that IDS provides include: Interlibrary Loan, and Document Delivery. IDS also provides electronic or home delivery of materials to distance education students and faculty, including homebound and active military students.

## Subscribed databases relevant to the program

- **AGRICOLA** - Covers every major agricultural subject. Citations consist of journal articles, book chapters, monographs, conference proceedings, serials, technical reports, and other materials on a range of agricultural topics from 1970 - present.
- **Agricultural & Environmental Science Collection** - Contains environmental science related full-text articles, granular access to figures and tables within articles, environmental impact statements, and the entire range of bibliographic records from Environmental Sciences and Pollution Management (ESPM).
- **Business Source Premier** - Coverage includes virtually all subject areas related to business.
- **CAB Abstracts** - Provides information on agricultural science, veterinary medicine, nutrition and natural resources.
- **CABDirect** - Index to international literature in agriculture, with access to book, conference proceedings and journal articles back to 1973.
- **Communication & Mass Media Complete** - Indexes and abstracts 400 journals, 200 of which are available full text.
- **Diversity Studies Collection** - Provides access to scholarly journals and magazines that explore cultural differences, contributions, and influences in the global community.
- **Education Research Complete** - Topics covered include all levels of education from early childhood to higher education, and all educational specialties, such as multilingual education, health education, and testing.
- **ERIC (Educational Resources Information Center)** - The largest education database in the world for research documents, journal articles, technical reports, program descriptions and evaluations, and curricular materials in the field of education.
- **Ethnic Diversity Source** - A dedicated resource covering the culture, traditions, social treatment and lived experiences of different ethnic groups in America. It provides full text from a growing list of sources including peer-reviewed journals, magazines, e-books, biographies and primary source documents.
- **National Agricultural Library Digital Collections (NALDC)** - offers access to full-text historical documents and images in the agricultural and food sciences.
- **Sociology Source Ultimate** - Coverage of topics ranges from gender identity, marriage and family, to demographics, political sociology, religion and socio-cultural anthropology.

## Additional support

- Faculty members may submit requests for information literacy sessions to be held by a faculty librarian. These sessions may occur in the Zuhl Instruction Lab, by Zoom, or at another location deemed appropriate by the instructor. Instruction sessions may be requested at <https://nmsu.libwizard.com/f/instruction>
- At the request of teaching faculty, the Reference and Research Services department will develop research guides at [nmsu.libguides.com](https://nmsu.libguides.com) that provide journals, databases, and other scholarly research access options to students of the program.
- Members of the faculty may suggest purchases of new materials that will support the program, at <https://nmsu.libwizard.com/f/purchase-request>. Larger purchase proposals can be submitted to the library's collection development team when funds allow.
- Researchers are encouraged to sign up for the Library's scholarly communication workshop series, *Showcasing Your Research*, which provides guidance on issues such as: Author rights, publishing agreements, citation management, literature reviews, and best practices in research. The registration for the workshop series is announced in the first month of each fall and spring term.
- Researchers are encouraged to use the Library's discovery service, Primo, which provides keyword and subject-based search on most of the Library's subscribed databases from a single search interface. Primo can be accessed at [primo.nmsu.edu](https://primo.nmsu.edu).

Please reach out should you have any questions.

Sincerely,

A handwritten signature in black ink that reads "David Irvin". The signature is written in a cursive style with a large, sweeping initial "D".

David Irvin  
Head of Reference and Research Services



## Appendix – Search terms and Library of Congress subject headings

### Terms for Human Dimensions of Agriculture Ph.D. program proposal

- Education
- Extension – philosophy and history
- Communications – campaigns; evaluation; risk and crisis in ag, consumer and environmental sci; global issues in ag comm and marketing;
- Innovation – ag dev,
- Research – data collection and analysis, qualitative and quantitative research in ed
- social sciences of agriculture
  - Diversity, Equity, and Inclusion Management
  - Native Americans in NM, and other under-represented populations
  - Immigration Dynamics Management

#### 1. Agriculture

- a. General
  - i. Economics
  - ii. Extension
  - iii. History & Conditions
  - iv. Meteorology, Crops & Climate
  - v. Physics, Ecology, Pollution
  - vi. Research, Experimentation
  - vii. Special Aspects of Agriculture as a Whole
- b. Conservation of Natural Resources, Land Conservation
- c. Plant Culture
- d. Wildlife Management

#### 2. Business

- a. Economic History & Conditions
- b. Economics - Industries, Land Use, Labor
- c. Special Industries & Trades, General
- d. Statistics
- e. Writing

#### 3. Education

- a. Higher Ed
- b. Special Aspects
  - i. Multicultural Ed
  - ii. Rural Ed
  - iii. Vocational Ed., Apprenticeship, Employee Training
- c. Theory & Practice

#### 4. Sociology

- a. Communities, Classes, Races
- b. Human Ecology, Anthropogeography
- c. Sociology, General & Theoretical Totals

# Letters of Support

**From:** Lacey Roberts-Hill <Inrob@nmsu.edu>  
**Sent:** Wednesday, June 14, 2023 1:11 PM  
**To:** Steven Frazee <sfraze@nmsu.edu>  
**Subject:** AXED PhD Program Support

Good afternoon Dr. Frazee,

I am writing you in support of the proposed PhD program for the Agricultural and Extension Education Department. With no existing PhD program, I find value in creating a program to be housed in our department. There is a need for higher education in the various fields of agriculture including Extension, Agricultural Education, and Agricultural Communications. With this program, we are meeting the needs of various fields around the state. As a proposed hybrid program with courses offered through NMSU's global campus, this degree would also provide opportunities of impact on our nation and world.

I am an existing graduate faculty member; therefore, I am already teaching courses that would be included in the proposed program. These courses are developed for hybrid settings, so there is no additional responsibility for me if this program is created.

I'm excited for this possibility and fully support this proposed program.

Best,

Dr. Roberts-Hill

**Lacey Roberts-Hill, Ph.D.**

Agricultural Communications | Agricultural and Extension Education  
New Mexico State University | P.O. Box 30003 | MSC 3501 | Las Cruces, NM 88003-8003  
104 GTH | Tel: 575-646-3078 | [Inrob@nmsu.edu](mailto:Inrob@nmsu.edu) | <https://axed.nmsu.edu/faculty/lacey-roberts.html>

-----  
**BE BOLD.** Shape the Future.  
**New Mexico State University**

**From:** Don Edgar <dedgar@nmsu.edu>  
**Sent:** Friday, June 16, 2023 1:20 PM  
**To:** Steven Frazee <sfraze@nmsu.edu>  
**Subject:** Ph.D. Human Dimensions of Agriculture

Dr. Frazee,

It is with great honor that I write in support of a Ph.D. housed in the Department of Agricultural and Extension Education at NMSU in the ACES college. The Ph.D. in Human Dimensions of Agriculture will fill a great void in post-secondary education in the western United States. This degree program will invoke interest and viability in the academic discipline of Agricultural Education and other similar areas.

Please contact me if you need further information.

*Don W. Edgar, Ph.D.*  
Agricultural & Extension Education, Professor  
#112 Gerald Thomas Hall  
Las Cruces, NM 88012  
<https://aces.nmsu.edu/academics/axed/>

**BE BOLD.** Shape the Future.  
**New Mexico State University**

**From:** Leslie Edgar <ledgar@nmsu.edu>  
**Sent:** Sunday, June 18, 2023 4:17 PM  
**To:** Steven Frazee <sfraze@nmsu.edu>  
**Subject:** PhD in the Human Dimensions of Agriculture

I am writing in support of the PhD in Human Dimensions of Agriculture. This program will allow for the expansion of a social science program to assist ACES and NMSU with our pursuit of return to Carnegie R1 research classification. It will also fill a critical need to provide for doctoral training that is not currently available in the state. Please contact me if I can provide any additional information regarding this important doctoral degree.

I hope this paragraph will work with my contact information below. My CV is attached.

Good luck!  
Leslie

-----  
**Leslie D. Edgar, Ph.D.**  
*Associate Dean of Research and Agricultural Experiment Station Director*  
College of Agricultural, Consumer, and Environmental Sciences  
New Mexico State University  
Box 30003, MSC 3BF  
Las Cruces, NM 88003-8003  
Office: 575-646-1138  
Mobile: 479-263-0408  
Preferred pronouns: she, her, hers  
<http://aces.nmsu.edu/aes/>



**BE BOLD.** Shape the Future. Elevate Research and Creativity.

**From:** Shannon Norris-Parish <norriss@nmsu.edu>

**Sent:** Monday, June 19, 2023 10:56 AM

**To:** Steven Frazee <sfraze@nmsu.edu>

**Subject:** Statement of Support for Human Dimensions of Agriculture - AXED PhD Program

Good morning, Dr. Frazee.

I fully support the proposed, “Human Dimensions of Agriculture (Education, Extension, Communication, & Leadership) – Doctor of Philosophy” program within the Department of Agricultural and Extension Education (AXED). Due to no existing PhD program focusing in these disciplines at New Mexico State University, this program would provide valuable opportunities for students seeking a higher degree in our state and in the Southwest. In addition, this program would meet industry desires and demands by providing valuable educational avenues for this field.

I am an existing graduate faculty member in this department, and I currently teach the courses that are proposed for this program. Because these courses are developed for hybrid settings, there is no additional burden on my workload to adapt the syllabus for PhD students.

Again, I support this proposed PhD program, and I am excited about this opportunity.

Best,  
Shannon

**Shannon Norris-Parish**

Ph.D. | Agricultural Communications | Agricultural and Extension Education

New Mexico State University | P.O. Box 30003 | MSC 3501 | Las Cruces, NM 88003–8003

Tel. 575.590.0030 | norriss@nmsu.edu | <https://aces.nmsu.edu/academics/axed/>

ORCID: <https://orcid.org/0000-0001-6292-1532>

**From:** LaJoy Spears <lrspears@nmsu.edu>  
**Sent:** Friday, June 23, 2023 10:40 AM  
**To:** Steven Frazee <sfraze@nmsu.edu>  
**Subject:** Re: PhD in the Human Dimensions of Agriculture

Dr. Frazee

I am writing in enthusiastic support of the proposed doctoral program for the department of Agricultural and Extension Education.

As part of our commitment to shape students into engaged citizens and leaders, I support our department to integrate engaged scholarship into the curriculum moving forward. The doctoral program in Human Dimensions of Agriculture fits well with the AXED curricular plan and will strengthen course offerings.

As faculty member in the department, I am eager to see new courses that further our curricular goals through innovative teaching and learning methods that connect graduate academics to the many learning opportunities beyond the NMSU community.

I fully support the development of the degree program and its integration into our department course offerings. Our students will be well-served by this degree program as part of their NMSU education. The program addresses student demand, supported by faculty interest and credentials while utilizing financial resources to promote program sustainability. Moreover, the degree program supports ACES and NMSU strategic goals.

**LaJoy R. Spears, Ph.D**

*Assistant Professor*, Program Development and Evaluation Specialist  
New Mexico State University  
College of Agricultural, Consumer, and Environmental Sciences  
Cooperative Extension Service  
(575) 646-6331 office

**From:** William Norris <wnorris1@nmsu.edu>  
**Sent:** Thursday, June 22, 2023 12:27 PM  
**To:** Steven Frazee <sfraze@nmsu.edu>  
**Subject:** Letter of Support

June 22<sup>nd</sup>, 2023

I am writing this letter in support of the proposed Ph.D. in the Human Dimensions of Agriculture at New Mexico State University (NMSU). This program will provide professionals in the areas of Agricultural Education, Agricultural Communications, and Extension the opportunity to pursue a doctoral degree. As a faculty member in the Agricultural and Extension Education (AXED) department at NMSU, I wholeheartedly agree to support this program by serving on doctoral committees, advising students on coursework, guiding students through the dissertation process, and/or any other capacity the program may need to succeed.

Currently, there is not a doctoral program at any institution of higher education in New Mexico that serves professionals in the Agricultural Education, Agricultural Communications, and Extension fields. This degree program would provide a phenomenal opportunity to advance these professionals' educational achievements and career opportunities. In addition, the proposed distance education model would allow the necessary flexibility for the student employed full-time to be successful. This aspect is critical in maintaining the program's utility for the working professional.

Overall, I am in full support of this doctoral program and look forward to working with students to advance their educational and career aspirations in this manner.

Sincerely,

*William Norris, Ph.D.*

Assistant Professor  
College of Agricultural, Consumer and Environmental Sciences  
Department of Agricultural and Extension Education  
MSC 3501  
New Mexico State University  
P.O. Box 30003  
Las Cruces, NM 88003-8003

Office# 575-646-4539

Cell# 334-531-7762

[wnorris1@nmsu.edu](mailto:wnorris1@nmsu.edu)



**From:** Allen Malone <aamalone@nmsu.edu>  
**Sent:** Tuesday, June 27, 2023 8:32 AM  
**To:** Steven Frazee <sfraze@nmsu.edu>  
**Subject:** RE: PhD in Human Dimensions of Agriculture

This letter signifies my support for the doctoral program in the Human Dimensions of Agriculture at New Mexico State University's, College of Agricultural, Consumer and Environmental Sciences (ACES), Department of Agricultural and Extension Education. The College is a firm believer in the Kaizen Mindset, which centers on the commitment to continuous improvement. The Cooperative Extension Service at New Mexico State University would benefit tremendously from this program. Its existence would afford our extension educators and professionals an opportunity to pursue a terminal degree and advance in their careers.

Serving as a tenured faculty member in the Department of Agricultural and Extension Education as well as the Associate Director for the Cooperative Extension Service affords me the privilege to recognize the value of such a program addition for the university. I proudly support the efforts of my colleagues in their pursuit of the doctoral program in the Human Dimensions of Agriculture.

Allen Malone



College of Agricultural, Consumer  
and Environmental Sciences

Cooperative Extension Service  
Office of the Associate Dean and Director  
MSC 3AE  
New Mexico State University  
P.O. Box 30003  
Las Cruces, NM 88003-8003  
575-646-3015, fax: 575-646-7042

June 28, 2023

To whom it may concern,

This letter signifies my support for the doctoral program in the Human Sciences Dimensions of Agriculture at New Mexico State University's, College of Agricultural, Consumer and Environmental Sciences (ACES), Department of Agricultural and Extension Education.

The College is a firm believer in the Kaizen Mindset, which centers on the commitment to continuous improvement. The Cooperative Extension Service at New Mexico State University would benefit tremendously from this program. Its existence would afford our extension educators and professionals an opportunity to pursue a terminal degree and advance in their careers.

Serving as a tenured faculty member in the Department of Agricultural and Extension Education as well as the Associate Director for the Cooperative Extension Service affords me the privilege to recognize the value of such a program addition for the university. I proudly support the efforts of my colleagues in their pursuit of the doctoral program in the Human Dimensions of Agriculture.

Sincerely,

A handwritten signature in blue ink that reads 'Allen A. Malone'.

Allen A. Malone, Ed.D.  
Associate Director  
Cooperative Extension Service  
New Mexico State University




College of Agricultural, Consumer  
and Environmental Sciences

MSC 3AG  
New Mexico State University  
P.O. Box 30003  
Las Cruces, NM 88003-8003  
575-646-3748, fax: 575-646-5975

**MEMORANDUM**

**DATE:** June 29, 2023

**TO:** Whom It May Concern

**FROM:** Dr. Donald E. Conner, Associate Dean and Director of Academic Programs 

**RE:** Support for New PhD Degree Program in Human Dimensions of Agriculture (Education, Extension, Communication, and Innovation)

The Curriculum Committee of the College of Agricultural, Consumer and Environmental Sciences met on July 29, 2023 to discuss the merits of a new doctoral program in the area of Human Dimensions of Agriculture (Education, Extension, Communication, and Innovation). This program proposal has been developed by the Department of Agricultural and Extension Education in the College.

After discussions, the Curriculum Committee unanimously supported this proposal for submission into the NMSU system for full approval. In brief, the Committee feels there is both need and demand for a doctoral program in this area and that this program supports the University's mission and strategic goals. Additionally, the Committee believes needed departmental, College and University resources are available to support this new endeavor. The College of ACES looks forward to the addition of this new degree program to its academic portfolio.



# New Mexico Agricultural Leadership Program

PO Box 30003 MSC 3501  
Las Cruces, NM 88003-8003  
P: 575-646-6691 F: 575-646-4082

Email: [nmal@nmsu.edu](mailto:nmal@nmsu.edu) | Website: [aces.nmsu.edu/nmal](http://aces.nmsu.edu/nmal) | [@NMagLeadership](https://twitter.com/NMagLeadership)

June 29, 2023

Greetings:

The proposal by the New Mexico State University Department of Agricultural and Extension Education to offer a PhD in Human Dimensions of Agriculture will provide a professional resource for organizations involved with the training and development of leaders within agriculture. A Doctoral Program will provide talented people with proven and practical tools for the continued growth of agricultural leadership.

The agricultural community is impacted through the efforts of County Extension Agents who provide educational experiences for youth through the 4-H program and to adults through Extension Education. The FFA program is driven by teachers in our school system who receive their undergraduate and graduate degrees through agricultural education in college. The New Mexico Agricultural Leadership Program offers further growth opportunities for professionals in agriculture to enhance their skills through leadership training and the study of cultural, political, and industrial topics. The availability of a Doctoral Program will be an asset supporting continued advancement in the field of leadership training.

The creation of this program at NMSU will offer an excellent prospect which will impact teachers and leaders throughout the western United States. I offer my full support for this degree.

Sincerely,

A handwritten signature in black ink that reads "Bob Mayberry". The signature is written in a cursive style with a large, prominent "B" and "M".

Bob Mayberry, NMAL, Inc. Board President



# DINÉ COLLEGE

THE HIGHER EDUCATION INSTITUTION OF THE NAVAJO NATION SINCE 1968

Diné College Land Grant Office – P.O. Box C01, Tsaile, Arizona – 928-724-6940

William Norris, Ph.D

Date: June 29, 2023

Dear Mr. Norris,

It is my pleasure to write this letter of support for New Mexico State University to develop Doctor of Philosophy in Human Dimension of Agriculture (Education, Extension, Communication, and Innovation). As a tribal land grant college, the Diné College Land Grant Office staff deliver programs to the Navajo Nation.

In the past year our department has been collaborating with NMSU on identifying ways to support Navajo High School Agriculture Teachers. We have found that many teachers are seeking graduate programs that would benefit their growth. Graduate Degree program development is necessary to create opportunity for working individuals.

While at a tribal college was also seek opportunities that will allow our enrolled students to move on into graduate programs and hope they return to the Navajo Nation and fill vital positions within our school system.

I look forward to hearing about the success of this new degree program opportunity.

Sincerely,

Benita Litson, Director  
Diné College Land Grant Office



**Agriculture, Food Science and Kinesiology**

Station 11  
1500 S Ave K  
Portales, NM 88130

Re: Letter of Support for NMSU Doctor of Philosophy in Human Dimensions of Agriculture

September 29, 2023

To Whom It May Concern:

This letter supports NMSU's proposed Doctor of Philosophy in Human Dimensions of Agriculture. As we continue to have more and more job positions open requiring individuals with higher degrees in the field, more options must be made available within the state. Students graduating from programs at ENMU would benefit from a program within the state.

In New Mexico, there is no Ph.D. program for students focused on agricultural education, leadership, communications, and extension. Students wishing to pursue a higher degree must leave the state of New Mexico. Formally, I was one of these students. Born and raised in New Mexico, I had to find one out-of-state when I began searching for doctoral programs. If an option had been available within the state, I would have been able to lessen some of the financial burden of obtaining my doctorate. By having a program here in the state of New Mexico, there is the possibility for more of these students to remain in the state. Having options within the state will help to alleviate some of the cost burden associated with going out of state to obtain a degree.

I look forward to learning more about ways I can support this degree.

Sincerely,

Dr. Kalynn Baldock  
Assistant Professor of Agricultural Science  
Agriculture, Food Science, and Kinesiology Department Chair  
Eastern New Mexico University



The Graduate School  
New Mexico State University  
P.O. Box 30001 MSC 3-GS  
Las Cruces, NM 88003-80011  
Phone: (575) 646-5746 • Fax: (575) 646-7758

### MEMORANDUM

Date: June 29, 2023

From: Carol Flinchbaugh  
Interim Associate Dean of the Graduate School

To: NM Higher Education Department

Subject: *PhD in the Human Dimensions of Agriculture (Education, Extension, Communications, and Leadership).*

---

The New Mexico State University (NMSU) Graduate School supports the proposed *PhD program in the Human Dimensions of Agriculture*. The *PhD program in the Human Dimensions of Agriculture* proposed by the Department of Agriculture and Extension Education will provide graduate students, many who are anticipated to be residents of New Mexico and surrounding regions with an opportunity to enhance their educational training and research to address social oriented problems associated with agriculture. Through interdisciplinary coursework and hands-on experiences in business, communication, county extension agencies, teaching and research, students will become well-versed in areas related to diversity, equity, and inclusion in the field of agriculture. Specific areas of focus in New Mexico and the borderlands include understanding the interchange between agriculture with underrepresented populations such as New Mexico's indigenous populations and immigration dynamics.

The proposed Doctor of Philosophy will prepare individuals for professional careers in agriculture and life sciences, including university faculty, public leadership roles in extension education, natural resource management, international agricultural development, and corporate leadership. The proposed *PhD program in the Human Dimensions of Agriculture* by the College of ACES is in demand in the border region, and there is no other U.S. program within 350 miles of Las Cruces, NM. The department faculty have received support from the New Mexico Extension Service, the New Mexico Agricultural Education/Future Farmers of America Association, and the United States Department of Agriculture.

If the proposed PhD program in *Human Dimensions of Agriculture* is classified as a humanities/social sciences degree by the Carnegie Classification, the NMSU Graduate School will provide initial graduate assistant funding support.



# New Mexico Agricultural Education

*Educating Today's Youth for Tomorrow's Agriculture Industry*

PO Box 30003, MSC FFA ♦ 3080 S. Espina ♦ Las Cruces, New Mexico ♦ 88003-8003

Phone: (575) 646-3036 ♦ Fax: (575) 646-4285 ♦ Email: nmffa@nmsu.edu

June 9, 2023

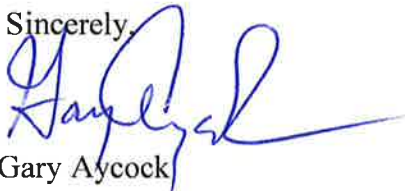
To whom it may concern,

This letter signifies my support of the New Mexico State College of Agricultural, Consumer, and Environmental Sciences (ACES) Department of Agricultural and Extension Education's proposed doctoral program in The Human Dimensions of Agriculture.

Agriculture Education is used across a wide range of agricultural industry settings and is constantly changing. Preparing students with the knowledge and skills to help design, maintain, and repair agricultural systems must be a critical component of Agricultural Education programs. Educators must be aware of the college and career opportunities in these areas to better stimulate educational student interest in pursuing these careers in the food, fiber, and protein agriculture industries nationwide. Qualified teachers are needed to successfully lead students through their educational experiences. However, many teachers lack the requisite preparation and resources to prepare students for today's and tomorrow's opportunities. This project will target and serve Agricultural Education educators, particularly those who come from non-traditional, underrepresented minority populations, with engagement in immersive, project-based educational techniques in various occupational fields. The students in this program will undergo high-quality instruction and receive numerous resources to take back to their local communities. The approach outlined in the Human Dimensions of Agriculture program will address essential needs in our country, particularly in helping to combat the educational challenges facing rural New Mexico and America.

As the Supervisor of Agricultural Education and State FFA Advisor for the State of New Mexico, I will support this program by encouraging professionals in the agricultural industry among Agricultural Education teachers and Extension personnel across the United States to reach their maximum outreach potential for their communities. I believe that this program will be valuable, and I will, to the best of my ability, assist the Department of Agricultural and Extension Education in meeting the objectives of this new program in The Human Dimensions of Agriculture. Thank you for your time and consideration of this program.

Sincerely,



Gary Aycock

Supervisor of Agricultural Education and State FFA Advisor

rga@nmsu.edu





NEW MEXICO DEPARTMENT OF AGRICULTURE  
Office of the Director/Secretary  
MSC 3189  
New Mexico State University  
P.O. Box 30005  
Las Cruces, NM 88003-8005  
Phone: (575) 646-3007

June 23, 2023

Steven D. Frazee, Ph.D., Department Head, Agricultural and Extension Education  
New Mexico State University  
P.O. Box 30003  
Las Cruces, NM 88003

Dear Dr. Frazee:

I am excited about the proposed Doctor of Philosophy in Human Dimensions of Agriculture (Education, Extension Communication and Innovation) that is being developed by NMSU College of Agriculture, Environmental, and Consumer Sciences. This program will afford professionals the opportunity to develop and enhance their core skill set to improve and serve, not only the agriculture community, but those who may work in the economic sectors supporting all rural communities.

NMSU is well positioned for this type of Ph.D. program and it is needed. New Mexico agriculture is one of the most diverse, not only in what we grow, but in who our producers are. As a state with the second oldest agricultural population in the nation, we will see a transition to the next generation in the future years. This live test bed will be a prime opportunity to train and educate our next generation of educators, researchers and extension specialists to better serve our diverse constituents. The additional education and experience received from the core curriculum will prepare and position NMSU students to appropriately serve our communities.

This is an exciting proposal that will establish academic prominence at NMSU in an area that is needed across the nation. I encourage you to support and recommend approval of this program.

Sincerely,

A handwritten signature in purple ink, appearing to read 'JM Witte', with a long horizontal flourish extending to the right.

Jeff M. Witte  
Director-Secretary  
NMDA



College of Agricultural, Consumer  
and Environmental Sciences

Cooperative Extension Service  
Office of the Associate Dean and Director  
MSC 3AE  
New Mexico State University  
P.O. Box 30003  
Las Cruces, NM 88003-8003  
575-646-3015, fax: 575-646-7042

June 1, 2023

This letter is written in support of the proposed Ph.D. in the Human Dimensions in Agriculture being proposed by the Department of Agricultural and Extension Education here at NMSU. The Human Dimensions or the Social Sciences of Agriculture include the disciplines of education, Extension, communications, and leadership. Any of these four elements are relative for individuals serving as Cooperative Extension agents.

The Cooperative Extension Service in New Mexico would benefit greatly from this program as our Cooperative Extension agents are all employed as faculty of NMSU and this would allow for advancement in their Extension careers. As tenured faculty being able to earn a Ph.D., this would benefit both the individual agents and well as the clientele they serve in New Mexico.

There is extreme shortage of qualified individuals to move into administrative roles in the Cooperative Extension Service, both in New Mexico and throughout the nation. The supply does not meet the demand. As an example, in a recent search for an Associate Director of Extension at New Mexico State University, we had one qualified candidate to interview.

As the Director for the New Mexico Cooperative Extension Service in the College of Agricultural, Consumer and Environmental Sciences, I recognize the need for this type of program here in the state of New Mexico and well as across the National Cooperative Extension system. If I can provide more information on the need for the Ph.D. in the Human Dimensions of Agriculture, do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Jon Boren'.

Jon Boren  
Associate Dean and Director  
Cooperative Extension Service



College of Agricultural, Consumer  
and Environmental Sciences

Agricultural Experiment Station  
Agricultural Science Center at Farmington  
P.O. Box 1018  
Farmington, NM 87499-1018  
505-960-7757, fax: 505-960-5246  
farmingt@nmsu.edu

June 28, 2023

Dr. Steve Frazee  
Department of Department of Agricultural & Extension Education  
New Mexico State University  
Las Cruces, NM 88003

***RE: Support for Doctoral Program in Agricultural Extension and Education (AXED) at NMSU.***

Dear Dr. Frazee:

I am delighted to write this letter of support for the Department of Agricultural & Extension Education (AXED) application to establish a Doctoral graduate degree program.

The NMSU-ASC Farmington is uniquely located on irrigated land lease from the sovereign Navajo Nation located in the Four Corners region of NM, CO, UT, and AZ. Our mission is to serve the agricultural needs of the Four Corners Region including the Navajo Agricultural Products Industry (NAPI, an 80,000 acre farm with over 600 center pivots) and small-medium scale producers located in the San Juan River valley.

The ASC Farmington is within close proximity to two 1994 Tribal Landgrant Colleges and Universities (Diné College and Navajo Technical University) and Fort Lewis College (a liberal arts college), all with large to predominant Native American populations. These institutions are pushing into agriculture at the undergraduate level but presently do not have masters or doctoral options in agriculture.

In my experience working with graduate students from the Four Corners region, students or potential students are often place bound, having deep connections to families and the community. Traditional NMSU-campus-based graduate programs are viewed by many of these students as out-of-reach due to the greater than 450 miles commute for the completion of coursework. It is also my experience that because the Four Corners Region is highly underserved in agricultural research needs, that staffing projects with graduate students reflective of regional cultural values found here has been difficult, even when funding has been obtained, and research projects seem endless. For the past year I have been hosting two AXED masters students, both Native American, at the Agricultural Science Center at Farmington. I have been working with Drs. Donald Edgar, William Noris, and

Shannon Norris-Parish co-mentoring these students. The Department of AXED is enabling these students to live and work within their communities for research projects year-round in Farmington.

I believe that having a doctoral AXED option would enable Agricultural Experiment Stations across the state, including ours, to expand educational and research options for place-based graduate students. Having a doctoral option within AXED would also benefit working professionals from non-NMSU institutions who may need to credential-up as part of their teaching and research duties.

Again, I want to express my strong support for this proposal. As the Research Director of the ASC Farmington, I am willing to commit resources at our facility so that it may serve as a regional hub of learning. I am willing to provide cubicle space, access to field plot and community networks in a highly underserved portion of the U.S. I stand ready to help in any way to see this proposal become reality.

Sincerely,



Kevin A. Lombard, PhD  
Professor of Horticulture and Research Director  
New Mexico State University Agricultural Science Center at Farmington



[www.naae.org](http://www.naae.org) | #TeachAg

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September 14, 2023

To Whom It May Concern:

The National Association of Agricultural Educators (NAAE) is a federation of state associations of agricultural educators with more than 9,000 members. Our members are involved in school-based agricultural education at any level, from middle school through postsecondary, and state and national agricultural education leadership. We advocate for agricultural education, provide professional development for agricultural educators, and work to recruit and retain agricultural educators in the profession.

As the Chief Executive Officer of NAAE, I have reviewed the proposed PhD in the Human Dimensions of Agriculture proposed by the Department of Agricultural and Extension Education at New Mexico State University and I believe this is a program that would be beneficial to agricultural educators throughout the country. Nationwide, there are not enough agricultural educators to meet the demand from the middle school level to post-secondary level to the state administrative level.

There are two important factors proposed in the PhD in the Human Dimensions of Agriculture. The first is the flexibility of the degree program in the various discipline areas of the social sciences of agriculture and the second is the delivery of the program on-line. The second factor is especially important, as there are numerous agricultural teachers nationwide who would take advantage of a program where they could continue in their current position and not have to move to the university location. Many states have included PhD degrees in the state salary scale. Many other individuals will take advantage of the program in order to advance to state administrative offices as supervisors and consultants.

As an agricultural education organization, we work closely with numerous cooperating partners such as CHS Foundation, John Deere, and Bayer, to name a short list, who are supportive of new and innovative ways to improve agricultural education. There are approximately 1,000,000 agricultural education students in the nation who are taught by nearly 12,000 secondary and two-year postsecondary teachers. It is estimated that the contact hours of in-school instruction in and about agriculture exceed 10 million annually.

The PhD in the Human Dimensions of Agriculture at New Mexico State University is an innovative approach to improving agricultural education and the NAAE offers their support.

Sincerely,

Alissa F. Smith  
CEO

---

**National Association of Agricultural Educators**  
One Paragon Centre, 2525 Harrodsburg Road, Suite 200  
Lexington, KY 40504-3358  
(859) 967-2892 or (800) 509-0204



**Agricultural Education and Agricultural Sciences**

Oregon State University, 108 Strand Agriculture Hall, Corvallis, Oregon 97331-2204

Phone 541-737-2661 | Fax 541-737-2256

To New Mexico State University Curriculum Council,

I am writing to express my support, and verify a need for, a distance-based Ph.D. program to serve graduate students interested in Agricultural and Extension Education. Currently, I am a professor and department head at Oregon State University and we are one of the only schools in the western part of the United States who offers a place-based Ph.D. program.

Recently, I had the opportunity to connect with NMSU faculty and was pleased to hear that the Department of Agricultural and Extension Education were considering a distance-based Ph.D. program. Every year when our department recruits graduate students we are asked "can this Ph.D. program be completed remotely?" Currently, there are no options, to my knowledge, where students can remain in their current jobs while completing a Ph.D. in agriculture and extension education. While place-based learning is still critical for our profession, it is rapidly becoming apparent that we need to adapt our model to meet the needs of current industry and extension professions who are interested in a Ph.D. but are unable to leave their job for 3-4 years and pursue an on-campus degree.

Our university has been a leader in distance education, and I have seen remarkable growth in our current undergraduate degree and graduate certificates. I believe there is a strong market for a Ph.D. program and am excited to hear that NMSU is pursuing a distance degree program. As you move forward, I look forward to helping support this effort as best I can. Please feel free to contact me at [jonathan.velez@oregonstate.edu](mailto:jonathan.velez@oregonstate.edu) or call me at 541-602-4969 if I can answer additional questions or be of further assistance.

Sincerely,

A handwritten signature in cursive script that reads "Jonathan Velez".

Jonathan Velez, Professor & Department Head  
Bradshaw Leadership Academy Professorship  
Co-Director, CAS Leadership Academy  
Agricultural Education & Agricultural Sciences  
[jonathan.velez@oregonstate.edu](mailto:jonathan.velez@oregonstate.edu)  
541-737-1336



Digital Learning  
MSC 311Q  
New Mexico State University  
P.O. Box 30001  
Las Cruces, NM 88003-8001  
575-646-1650

June 28, 2023

Subject: NMSU Global Campus Letter of Support for Human Dimensions of Agriculture  
(Education, Extension, Communication & Innovation)

To Whom It May Concern:

I am writing on behalf of NMSU Global Campus to express our full support for the design, development, and implementation of this new program, Human Dimensions of Agriculture. This includes any funding that may be necessary to develop, revise, or deliver associated online courses throughout the duration of this program.

NMSU Global Campus recognizes the growing importance of fostering experts within the multidimensional field of Agriculture. To ensure the seamless delivery of the developed program, NMSU Global Campus is fully committed to maintaining the required infrastructure. We understand the significance of providing a robust framework to support the transmission of knowledge effectively. By leveraging our existing resources and expertise, we will work in collaboration with the College of Agricultural, Consumer, and Environmental Sciences (ACES).

In summary, NMSU Global Campus enthusiastically supports the development of this program. We firmly believe that by working together, we can ensure the delivery of a high-quality online program. We look forward to collaborating and advancing the field of agriculture.

Should you require any additional information, please do not hesitate to contact me at [kollmann@nmsu.edu](mailto:kollmann@nmsu.edu). We are excited about the potential of this program.

Sincerely,

A handwritten signature in black ink, appearing to be "Sherry Kollmann", written in a cursive style.

Sherry Kollmann, PhD  
Associate Vice Chancellor, Digital Learning



College of Agricultural, Consumer  
and Environmental Sciences

Office of the Dean and Chief Administrative Officer  
MSC 3AG  
New Mexico State University  
P.O. Box 30003  
Las Cruces, NM 88003-8003  
575-646-3748, fax: 575-646-5975  
agdean@nmsu.edu

June 20, 2023

To Whom It May Concern,

I am writing this letter as the Dean of the College of Agricultural, Consumer and Environmental Sciences of NMSU in support of the PhD in the Human Dimensions in Agriculture proposed program developed by the Department of Agricultural & Extension Education. As a Land Grant institution, we are lacking in a graduate program for the social sciences of agriculture. There is currently a severe shortage of individuals within the system holding a doctorate in this area. This includes the Cooperative Extension Service and the United States Department of Agriculture. This shortage extends beyond the borders of New Mexico, especially in the Western region of the United States.

This program will allow for the expansion of a social science program to assist ACES and NMSU with our pursuit of return to Carnegie R1 research classification. It will also fill a critical need to provide doctoral training that is not currently available in the state. The mission of the College of ACES is based on four pillars for Economic and Community Development. The pillars include Food and Fiber Production and Marketing, Water Use and Conservation, Family Development and Health of New Mexicans, and Environmental Stewardship. These pillars are all supported on a Foundation of Education and Training. This program will support the Foundation of the Mission of ACES.

The Department of Agricultural and Extension Education has been completely restructured since January of 2020 with a new department head and a total of eight faculty which includes the Associate Dean for Research and the Associate Director for Extension. This faculty is very engaged and committed to supporting the mission of NMSU, the College of ACES, and the Land Grant System. I believe this program will contribute to all Four Goals of LEADS 2025 to (1) Enhance Student Success and Social Mobility, (2) Elevate Research and Creativity, (3) Amplify Extension and Outreach, and (4) Build a Robust University System.

This proposed program has my full support plus a commitment of a graduate assistantships if approved. This program will not require any funding for faculty or equipment. If I can provide further information on my support of the proposed PhD in the Human Dimensions of Agriculture, please do not hesitate to ask.

A handwritten signature in black ink, appearing to read "Rolando A. Flores Galarza". The signature is fluid and cursive, with a long horizontal line extending to the right.

Rolando A. Flores Galarza  
Dean & Chief Administrative Officer





College of Agricultural, Consumer  
and Environmental Sciences

Office of the Dean and Chief Administrative Officer  
MSC 3AG  
New Mexico State University  
P.O. Box 30003  
Las Cruces, NM 88003-8003  
575-646-3748, fax: 575-646-5975  
agdean@nmsu.edu

June 20, 2023

NMSU Graduate Program Approvals,

I am writing this letter as the Dean of the College of Agricultural, Consumer and Environmental Sciences of NMSU in support of the PhD in the Human Dimensions in Agriculture proposed program developed by the Department of Agricultural & Extension Education. As a Land Grant institution, we are lacking in a graduate program for the social sciences of agriculture. There is currently a severe shortage of individuals within the system holding a doctorate in this area. This includes the Cooperative Extension Service and the United States Department of Agriculture. This shortage extends beyond the borders of New Mexico, especially in the Western region of the United States.

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A handwritten signature in black ink, appearing to read 'Rolando A. Flores Galarza', is written over a large, light-colored, stylized graphic element that resembles a signature or a decorative flourish.

Rolando A. Flores Galarza  
Dean & Chief Administrative Officer



**Board of Regents Meeting**  
**Meeting Date: May 29, 2024**  
**Agenda Item Cover Page**

**Agenda Item # C-2**

- Action Item
- Consent Item
- Informational Item

**Presented By: Raghu Raghavan**  
*Associate Vice President*  
*Facilities and Services*

**Agenda Item:** NMSU System: Five-Year Facilities Plans

**Requested Action of the Board of Regents:** Approval of the NMSU System: Five-Year Facilities Plans as presented.

**Executive Summary**

This is the annual approval by the Governing Board required for the NMHED Capital Outlay process for the five (5) year plan for the institution.

**References**

See attached presentation, proposal, and supplemental materials.

**Prior Approvals**

None.

# Board of Regents

## May 29, 2024

### CAPITAL OUTLAY

**D'Anne Stuart**  
Interim Vice-President

**Raghu Raghavan**  
Associate Vice-President

The logo for New Mexico State University, featuring the letters "NM" stacked above "STATE" in a white serif font, enclosed within a white square that is itself centered within a larger maroon square.

NM  
STATE

**BE BOLD.** Shape the Future.®  
**New Mexico State University**

# Annual Capital Outlay Request Process

- NM Higher Education Department (NMHED) process for requesting state funds specific for capital construction and capital renewal projects.
- Annually, institutions submit priority capital projects for state funding. NMHED evaluates requests to make funding recommendations.  
*General Fund (nonrecurring), Severance Tax Bonds, General Obligation Bonds*
- Process requires the university to develop a five-year capital plan
- Timeline
  - May 2024 – Board of Regents approval of the Five-Year Capital Plan
  - June 3, 2024 – NMHED submission deadline
  - August 6, 2024 – NMHED Summer Hearings
  - September 2024 – NMHED review and recommendation of capital outlay funding to NM Department of Finance and Administration (NMDFA)
  - October/November 2024 – NMDFA review and recommendation of capital outlay funding
  - 2025 Legislative Session

# Prior Year Funding Request

BOR Approved Five-Year Plan as of May 2023

Campus	Project	Request	Approved (contingent on 2024 general election)
<b>2024-2025 (GOB Year)</b>			
Las Cruces	Creative Media Institute Building - Phase 1	\$ 35,000,000	\$ 10,000,000
	Critical Infrastructure Upgrades (Steam)	10,000,000	
	Critical Infrastructure Upgrades (Electrical)	10,000,000	20,000,000
	Agricultural Science Centers	25,000,000	15,000,000
	<b>Total</b>	<b>\$ 80,000,000</b>	<b>\$ 45,000,000</b>
Dona Ana	Gadsden Center Campus Access Roadway	<b>Total \$ 1,575,000</b>	<b>\$ 1,575,000</b>
Alamogordo	Classroom Building Replacement	<b>Total \$ 7,000,000</b>	<b>\$ 1,000,000</b>
Grants	Martinez Hall Upgrades	<b>Total \$ 11,700,000</b>	<b>\$ 3,000,000</b>
<b>2025-2026 (STB Year)</b>			
Las Cruces	Creative Media Institute - Phase 2	\$ 20,000,000	
Las Cruces	Technology Infrastructure Building	10,000,000	
Las Cruces	Critical Infrastructure Upgrades	\$15,500,000	
	<b>Total</b>	<b>\$ 45,500,000</b>	
Alamogordo	Chiller/Boiler repair and replacement campus-wide	\$ 1,000,000	
Alamogordo	Building Envelope Improvements	500,000	
	<b>Total</b>	<b>1,500,000</b>	
Dona Ana	Classroom Infrastructure upgrades and replacement	\$ 1,700,000	
Dona Ana	Information Technology Infrastructure Upgrades	\$ 325,000	
	<b>Total</b>	<b>\$ 2,025,000</b>	
Grants	Infrastructure and Safety/Security Upgrades	<b>Total \$ 315,000</b>	

# 2024 NMHED Summer Hearing Guidelines

## Research Institutions may present:

- Top Three Priority Projects
- One Supplemental Request
- One Demolition Request

## Branch Campuses may present:

- Top Two Priority Projects
- One Supplemental Request
- One Demolition Request



Proposed Campus Five-Year Capital Outlay Plan as of 5/29/2024

Campus	Funding Priority	Proposed Five-Year Plan (May 2024)	FY26 Appropriation Request	Prior State Funding	Other Funding		Future Funding Requests	Total Project Cost	Notes
					Amount	Type			
<b>Year 1: 2025-26 (Severance Tax Bond Year)</b>									
Las Cruces	1	Creative Media Institute	\$ 40,000,000	\$ 10,000,000	\$ 5,000,000	Donor/ Fundraising		\$ 55,000,000	Construct a new facility to provide specialized space for Creative Media Institute as part of the Creative Campus at Arrowhead Park
Las Cruces	2	Biomedical Expansion	\$ 4,500,000	\$ 4,800,000	\$ 7,084,640	NIH Grant		\$ 16,384,640	Phase 3 Ag Modernization Project. Expansion to existing Biomedical Research Building for new wild animal vivarium, aviary and insectary
Las Cruces	3	Critical Infrastructure Upgrades - Water System	\$ 12,000,000					\$ 12,000,000	Drill, equip and build new 3200+GPM domestic water well and a 24" water main line
Las Cruces	4	Planning and Design for Walden Renovation	\$ 1,000,000					\$ 1,000,000	
Las Cruces	5	Planning and Design Energy Transition	\$ 1,000,000					\$ 1,000,000	
Las Cruces	Demo	Selective Demolition (including asbestos abatement)	\$ 20,500,000					\$ 20,500,000	
Las Cruces	Sup	Supplemental - O'Donnell Hall	\$ 1,500,000					\$ 1,500,000	
		<b>Total</b>	<b>\$ 80,500,000</b>						
Dona Ana	1	DACC Espina Campus Steam Replacement Project	<b>Total \$ 1,475,000</b>		\$ 525,000	Local Fund		\$ 2,000,000	
Alamogordo	1	Electronic Access Control for all buildings	<b>Total \$ 1,125,000</b>		\$ 300,000	Institutional		\$ 1,425,000	
Grants <sup>(1)</sup>	1	Phase 2 Martinez Hall Upgrades	<b>Total \$ 2,100,000</b>	\$ 3,000,000			13,900,000	\$ 19,000,000	Infrastructure and safety/security upgrades, energy management systems, access control
<b>Year 2<sup>(2)</sup>: 2026-27 (GO Bond Year)</b>									
Las Cruces		Walden Hall Renovation (offline)	\$ 25,000,000					\$ 25,000,000	
Las Cruces		Technology Infrastructure/Data Center	xxx					\$ 14,100,000	Rework specifications to support High Performance Computing requirements and find alternative location
Las Cruces		Critical Infrastructure Upgrades	\$ 20,000,000					\$ 20,000,000	
Las Cruces		Electronic Access Control/Security Expansion	xxx					\$ -	
Las Cruces		Agricultural Science Centers	\$ 30,000,000					\$ 30,000,000	
Las Cruces		Selective Demolition	\$ 5,000,000					\$ 5,000,000	
		<b>Total</b>	<b>\$ 75,000,000</b>						
Dona Ana		Sunland Park Upgrades/Renovation	<b>Total \$ 4,000,000</b>		\$ 8,100,000	Local Fund		\$ 12,100,000	
Alamogordo		Chiller/Boiler repair and replacement campus-wide	\$ 2,000,000		\$ 500,000	Institutional		\$ 2,500,000	
Alamogordo		Phase 1: Tays Center Renovation	\$ 500,000		\$ 125,000	Institutional		\$ 625,000	Structural repairs, interior and exterior renovations including HVAC
		<b>Total</b>	<b>\$ 2,500,000</b>					\$ 2,500,000	
Grants <sup>(1)</sup>		Phase 3 Martinez Hall Upgrades	<b>Total \$ 13,900,000</b>					\$ 13,900,000	HVAC, renovate student services, administrative spaces, classroom improvements, and lab conversions
<b>Year 3<sup>(2)</sup>: 2027-2028 (Severance Tax Bond Year)</b>									
Las Cruces		Selective demolition of buildings	\$ 5,000,000						
Las Cruces		Roadway Improvements	\$ 7,360,000					\$ 7,360,000	
Las Cruces		Fire Safety Upgrades, per Fire Alarm and Sprinkler Report	\$ 6,500,000					\$ 6,500,000	
Las Cruces		Critical Infrastructure Upgrades	\$ 10,000,000					\$ 10,000,000	
Las Cruces		Exterior Stucco and Roof Replacement campus-wide	\$ 10,000,000					\$ 10,000,000	
Las Cruces		Planning and Design for Chemistry Renovation	\$ 2,000,000					\$ 2,000,000	
		<b>Total</b>	<b>\$ 40,860,000</b>						
Dona Ana		Classroom/Infrastructure/Safety upgrades and replacement	\$ 1,500,000		\$ 500,000	Local Fund		\$ 2,000,000	
Dona Ana		Information Technology Infrastructure Upgrades	\$ 625,000		\$ 250,000	Local Fund		\$ 875,000	
		<b>Total</b>	<b>\$ 2,125,000</b>					\$ 2,875,000	

Campus	Funding Priority	Proposed Five-Year Plan (May 2024)	FY26 Appropriation Request	Prior State Funding	Other Funding		Future Funding Requests	Total Project Cost	Notes
					Amount	Type			
Alamogordo		Building Envelope Improvement	<b>Total \$ 500,000</b>		\$ 125,000	Institutional		\$ 625,000	Campus-wide including windows, doors and stucco
Grants <sup>(1)</sup>		Campuswide Infrastructure Upgrades and Replacement	<b>Total \$ 500,000</b>					\$ 500,000	
<b>Year 4<sup>(2)</sup>: 2028-2029 (2028 GO Bond)</b>									
Las Cruces		Chemistry Building Renovation (option of phasing)	\$ 50,000,000					\$ 50,000,000	
Las Cruces		Critical Infrastructure Upgrades	\$ 10,000,000					\$ 10,000,000	
Las Cruces		Agricultural Science Centers	\$ 35,000,000					\$ 35,000,000	
		<b>Total</b>	<b>\$ 95,000,000</b>						
Dona Ana		Physical Plant Facility - East Mesa Campus	<b>Total \$ 2,200,000</b>		\$ 5,000,000	Local Fund		\$ 7,200,000	
Alamogordo		Phase 2: Tays Center Renovation	<b>Total \$ 1,000,000</b>		\$ 250,000	Institutional		\$ 1,250,000	
Grants <sup>(1)</sup>		McClure Hall Classroom to Lab Conversion	<b>Total \$ 1,500,000</b>					\$ 1,500,000	
<b>Year 5<sup>(2)</sup>: 2029-2030 (Severance Tax Bond Year)</b>									
Las Cruces		Planning and Design for Milton Renovation	\$ 1,000,000					\$ 1,000,000	
Las Cruces		Planning and Design for Gerald Thomas Renovation	\$ 2,000,000					\$ 2,000,000	
Las Cruces		Campus Wide Elevator Upgrades	\$ 40,000,000					\$ 40,000,000	
Las Cruces		Critical Infrastructure Upgrades	\$ 20,000,000					\$ 20,000,000	
		<b>Total</b>	<b>\$ 63,000,000</b>						
Dona Ana		Classroom/Infrastructure/Safety upgrades and replacement	\$ 1,600,000		\$ 400,000	Local Fund		\$ 2,000,000	
Dona Ana		Information Technology Infrastructure Upgrades	\$ 625,000		\$ 250,000	Local Fund		\$ 875,000	
		<b>Total</b>	<b>\$ 2,225,000</b>						
Alamogordo		Phase 2: Classroom Building Expansion	<b>Total \$ 500,000</b>		\$ 125,000	Institutional		\$ 625,000	Includes faculty offices & Art building
Grants <sup>(1)</sup>		Campuswide Security and Infrastructure Upgrades	<b>Total \$ 1,500,000</b>					\$ 1,500,000	

**Notes:**

- (1) Grants Campus requests a waived or reduced Institutional Fund Commitment
- (2) Las Cruces Campus will revise the five-year plan based on results of Facilities Condition Assessment and evaluation of space utilization



# Las Cruces Campus Priority 1 Creative Media Institute Facility



State-of-the art, industry-standard building features will be unique to the Southwest, which will elevate the quality of instruction to better match the needs of both the technician and creative lead roles NMSU is adding to New Mexico's media workforce.

Perspective from the NW  
Administration wing and Screening room



**BE BOLD.** Shape the Future.®

# Creative Media Institute

- Creative Media Institute offers bachelor's degrees in Digital Film Making, Animation and Visual Effects, and Journalism and Media Studies, as well as a Masters of Fine Arts degree in Creative Writing. These degrees provide a variety of career pathways in media and other industries that rely on media.
- Demand
  - Total of 560 students had a Creative Media Institute first major in Fall 2023.
  - Film-specific programs had the 6<sup>th</sup> largest enrollment of all main campus programs in Fall 2023.
  - Enrollment in film-specific programs has grown by 22% since 2018
  - Programs are the 5th fastest growing on the main campus (based on the average number of students added each year).
  - 79% of the Creative Media Institute's students are underrepresented minorities, which is notably higher than NMSU's Las Cruces campus as a whole.
  - Anticipate an immediate 17% enrollment increase with the additional lab space and will allow for much larger future growth as faculty are added.
- This project will help increase the number of New Mexico students that can enter the state's media workforce, while also improving the quality and breadth of instruction so that all industry roles can be filled from within the state.



# Creative Media Institute Commercial Soundstage Collaboration

- NM Economic Development Department (NMEDD) will fund a \$15M commercial soundstage adjacent to DACC CMT building and NMSU Creative Media Institute.
- Facility will be leased to a commercial soundstage operator
- Soundstage will benefit NMSU Creative Media Institute and DACC CMT programs, industry, and economic development.
- NMEDD must obligate funds by June 30, 2024 (federal recovery funding).
- Next steps:
  - Finalize agreement with NMEDD and obtain Board of Regents/Arrowhead Center Inc. Board of Directors approval (June)
  - If approved, NMEDD will transfer funds
  - Initiate process for final design and construction



# Las Cruces Campus Priority 2 Biomedical Building Expansion

Biomedical Buildings are located at intersection of Espiña Street and Frenger Mall Drive.

The project is the final phase of the Ag Modernization Project.



# Biomedical Building Expansion

- Construction of expansion to existing Biomedical Research Building for a wild animal vivarium, aviary and insectary.
- Capitalize on opportunity to bridge several colleges and departments at NMSU to support scientific discovery.
- Provide state-of-the-art research capabilities.
- Provide behavioral spaces, procedure rooms, support labs, and other vivarium support space designed to elevate animal health status.

# Biomedical Building Expansion

Total Project Budget	\$16,384,640
Funding Received:	
FY22 National Institutes of Health(NIH) Grant Funding	\$ 7,084,640
FY 2022 General Obligation Bond	\$ 4,800,000
Additional Funding Needed	\$ 4,500,000



# Las Cruces Campus Priority 2 Critical Infrastructure - Water

- Replacement of failed water well #11 and completion of 24 inch water transmission line identified in the 2009 Utility Master Plan
- Well #11 project scope includes drilling and installing a 3200 gallon per minute water well
- Completion of 24 inch water main scope includes connecting to the Phase-2 termination point located at the corner of Sam Steel and Wells Street and continue eastward for final connection to the domestic water storage tanks located east of I-25 and adjacent to the university golf course.
- Other improvements include removal of Asbestos Cement (AC) pipe within the campus water district to be replaced with PVC (C900) materials to improve water quality

# Demolition Funding Request

## **COLE VILLAGE AND TUCUMCARI AGRICULTURAL SCIENCE CENTER HORSE BARN DEMOLITION**      **\$20,500,000**

- Demolition of aging and deteriorating facilities and reduction of maintenance costs for Cole Village buildings. Cole Village is listed on the inventory to be considered for demolition by the current NMSU Master Plan
- Cole Village consists of 26 townhouse style buildings containing a total of 210-2 story units
- Cole Village has become a safety issue for the campus.
- Tucumcari Agricultural Science Center Horse Barn Demolition includes disposal of building materials and disconnection of utilities





# Supplemental Funding Request

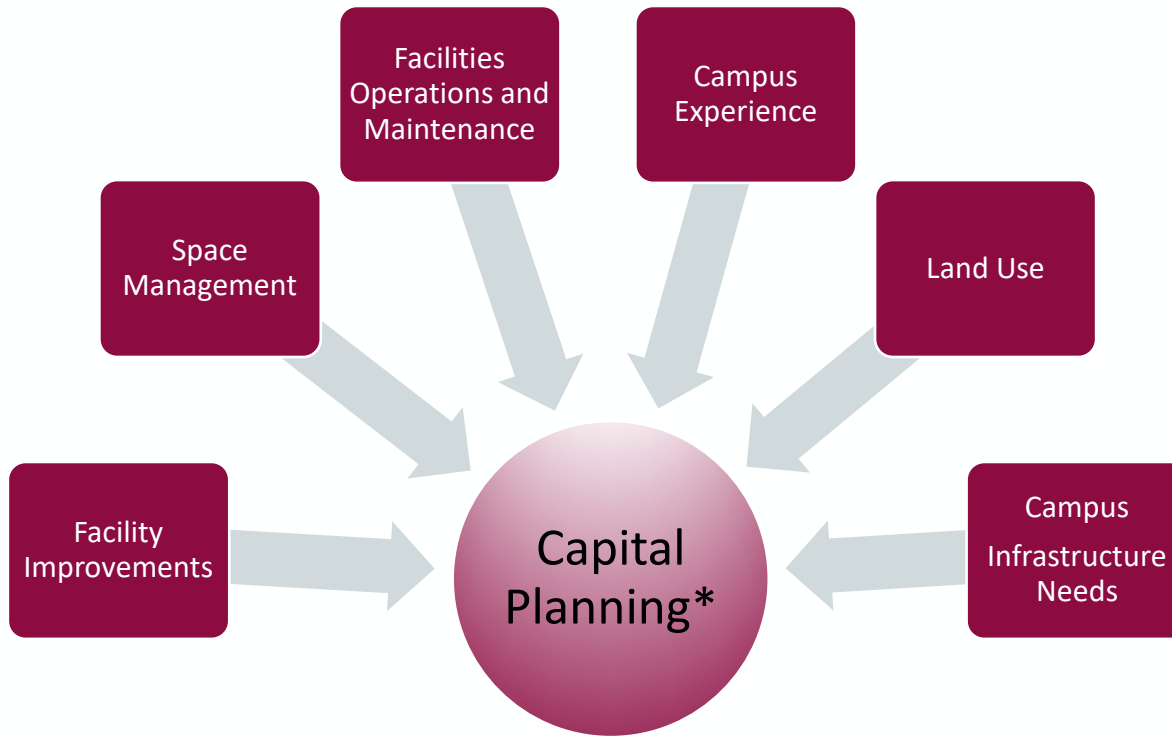
## O'DONNELL HALL EXPANSION

**\$1,500,000**

- Additional funds for construct of new expansion for College of Health, Education and Social Transformation (HEST)
- Expand Autism Clinic and create new space for speech clinic to create cohesive community clinics
- Create new operating room simulation laboratory for Nursing Anesthesiology Program in the Health and Social Services Building



# Capital Planning Initiative



- Buildings
- Open Space
- Technology
- Utilities
- Safety and Security
- Deferred Maintenance
- Space Utilization
- Campus Circulation – roads, transportation, pathways
- Sustainability
- Parking

\*Executive Capital Planning Committee

# Resource Planning

- **Facility Condition Assessment** – *phase 1 complete*
- **Space Utilization Study** – *results under review*
- **Academic Planning** – *in progress*
  - Target enrollment
  - Program review
  - Student programs and services
  - Institutional “brand”
  - Research priorities
- **Master Planning/Updates**
  - Facilities
  - Technology
  - Campus security
  - Student Union
  - Housing
  - Student services
  - Parking and transportation
  - Library



# Other Capital Outlay (not funding through this process)

## Proposed Other Five-Year Capital Outlay Plan

Area	Proposed Five-Year Plan (May 2024)	Amount	Funding
<b>2024-25</b>			
Athletics	New Stadium Press Box	\$ 15,000,000	
Athletics	Softball/Baseball Turf	\$ 4,000,000	
Athletics	Women's Soccer and Softball Stadium Press Box and Improvements	\$ 2,500,000	
Athletics	Track and Field Facility Improvements	\$ 400,000	
Athletics	Football Facility Upgrades	\$ 2,000,000	
Athletics	Men's/Women's Basketball Facility Upgrades	\$ 500,000	
Athletics	Football Parking Lot Upgrade	\$ 900,000	
Athletics	Golf Team and Practice Facility (new construction)	\$ 10,000,000	
Athletics	Tennis Office Renovation and Addition (office expansion)	\$ 250,000	
Athletics	Volleyball Facility Upgrades	\$ 250,000	
Athletics	Swimming Metal Diving Platform	\$ 250,000	
Athletics	Coca Cola Weight Training Facility Improvements	\$ 400,000	
Athletics	Soccer Facility Improvements	\$ 300,000	
Athletics	Athletics Recovery Room Upgrades	\$ 750,000	
Auxiliary Services	Corbett Center Dining Hall Renovation	\$ 3,500,000	Dining contract capital investment
Auxiliary Services	Corbett Center franchise refresh	\$ 750,000	Dining contract capital investment
Auxiliary Services	Chamisa Village I stucco and upgrades - Phase 1	\$ 3,815,000	Revenue bond (prior issuance)
Auxiliary Services	Corbett Center improvements	\$ 1,216,000	Revenue bond (prior issuance)
Auxiliary Services	Parking lot and loading dock pavement repair	\$ 900,000	Parking R&R
<b>2025-26</b>			
Athletics	Track and Field Facility Improvements	\$ 2,500,000	
Arrowhead Park	Park Street, Utilities, and Interior Roadway & Drainage	\$ 3,625,000	
Arrowhead Park	Wastewater Tie-In to City of Las Cruces System at I-10	\$ 1,160,000	
Arrowhead Park	Arrowhead Park Water System Upgrades for Pressure, Flow	\$ 1,885,000	
Auxiliary Services	Garcia Hall Upgrades and Furniture	\$ 1,041,000	Housing R&R
Auxiliary Services	Golf Course	\$ 305,000	
Auxiliary Services	Parking Lot Repairs and Upgrades	\$ 500,000	Parking R&R
<b>2026-27</b>			
Athletics	Baseball Lighting	\$1,500,000	
Arrowhead Park	Space Street, Utilities, Drainage Project	\$ 2,755,000	
Auxiliary Services	Parking Lot Repairs and Upgrades	\$ 515,000	Parking R&R
<b>2027-28</b>			
Athletics	Multi-purpose Practice Facility	\$15,000,000	
Arrowhead Park	Arrowhead Drive Median Landscaping Upgrades	\$ 870,000	
Arrowhead Park	Tortugas Arroyo Educational Trail	\$ 2,175,000	
Auxiliary Services	Parking Lot Repairs and Upgrades	\$ 530,500	Parking R&R
<b>2028-29</b>			
Athletics	Football Lighting	\$3,000,000	
Arrowhead Park	EBID Flood Control Reclaim Design	\$ 1,087,500	
Auxiliary Services	Parking Lot Repairs and Upgrades	\$ 546,500	Parking R&R