

Legislative Finance Committee

MAY 20, 2021

Chancellor Arvizu



BE BOLD. Shape the Future.
New Mexico State University

New World of Work: Preparing Students to be Competitive in Rapidly Changing Industries

Performance in Recruitment, Student Retention and Completion
Top Ten Academic Programs

Monica Torres, President, Dona Ana Community College
Enrico Pontelli, Dean, College of Arts and Sciences



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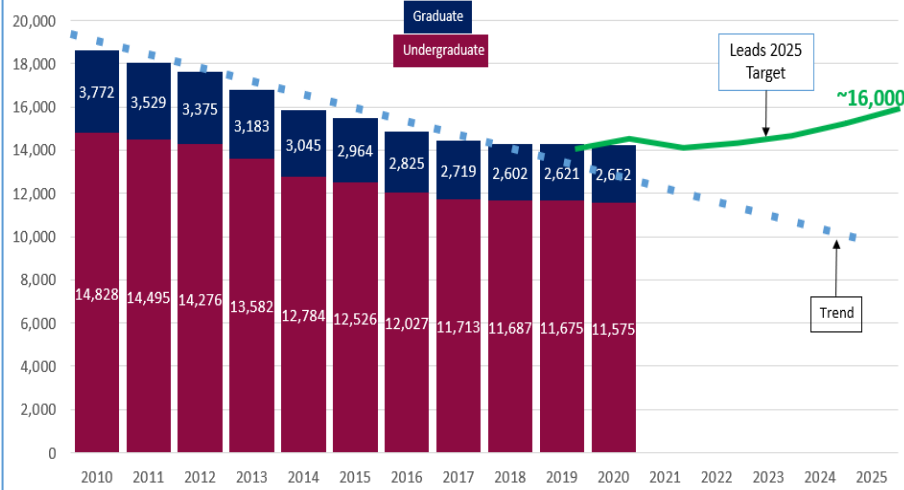
THANK YOU



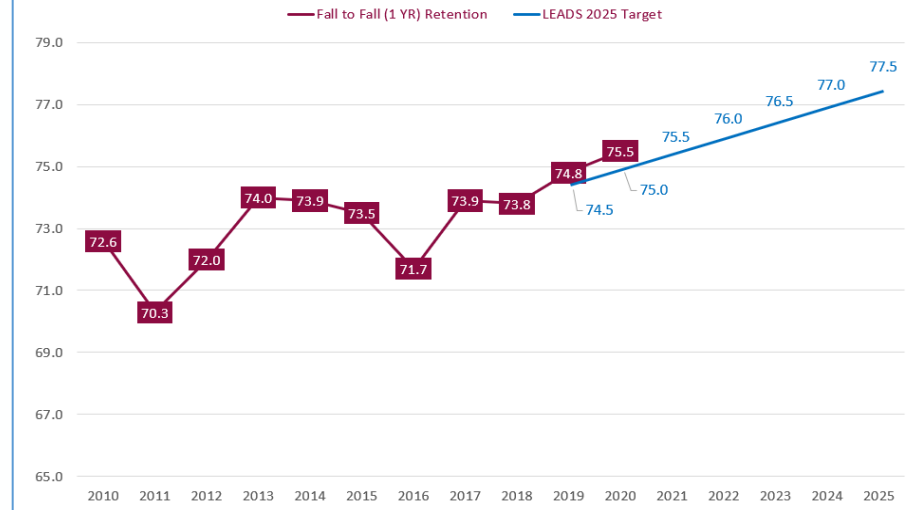
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ENROLLMENT, RETENTION, COMPLETION

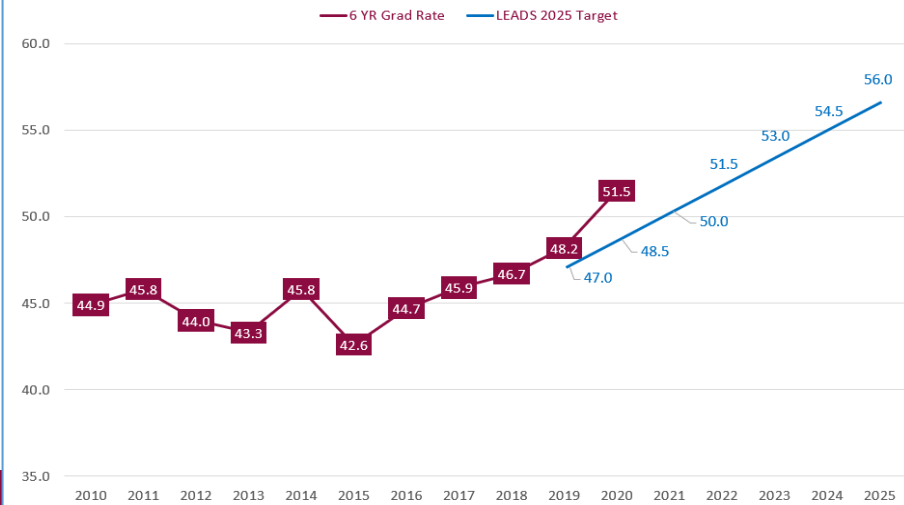
Enrollment



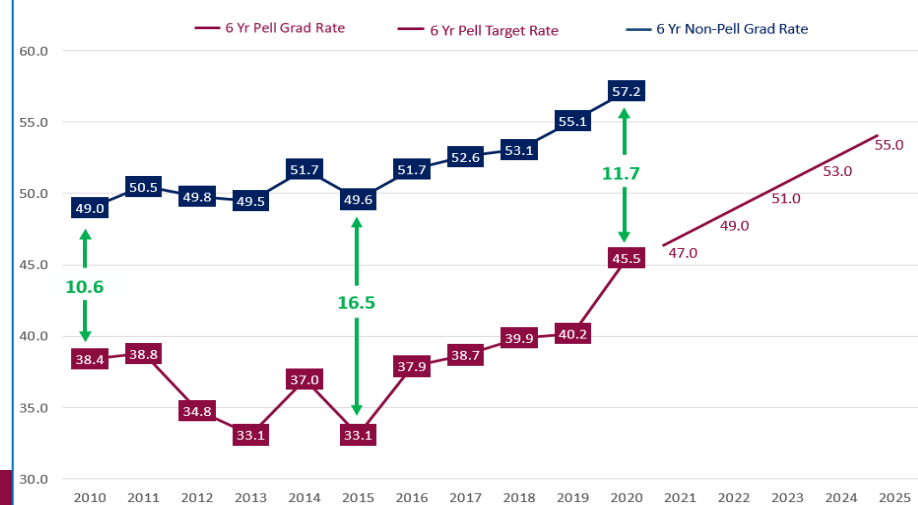
Fall to Fall (1st Year) Retention



6-Year Graduation Rate

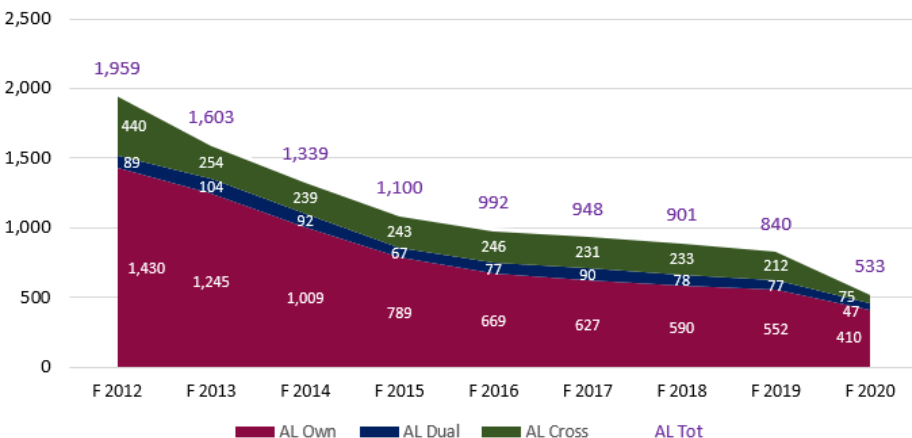


Closing the Achievement Gap – 6 Year Graduation Rate – Gap Increased

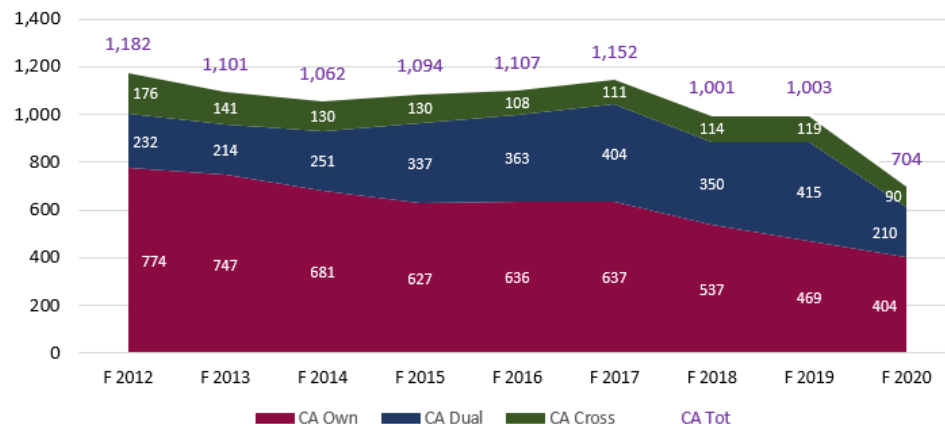


STUDENT FTE BY SOURCE – NMSU CROSS CAMPUS AND HS DUAL CREDIT

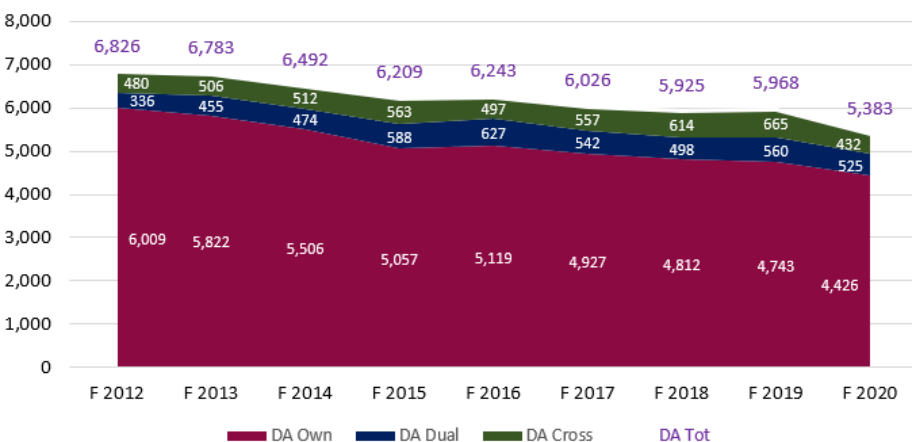
Alamogordo Student FTE



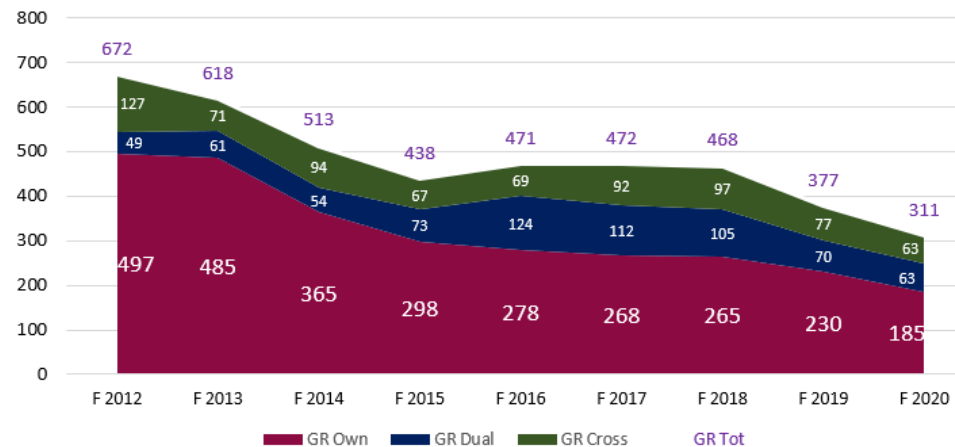
Carlsbad Student FTE



Dona Ana Student FTE



Grants Student FTE



Source: NMSU Data Warehouse - Fall Census. Based on 12 SCH per Student FTE.



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TOP 10 UNDERGRADUATE MAJORS - MAIN CAMPUS

FALL 2010	
Major	Head Count
Criminal Justice	814
Biology	561
Elementary Education	540
Pre-Nursing	522
Psychology	506
Marketing	420
Mechanical Engineering	403
Hotel, Rest. and Tourism Mgmt	392
Management	355
Secondary Education	336
Accounting	328

FALL 2020	
Major	Head Count
Criminal Justice	641
Biology	560
Mechanical Engineering	518
Pre-Nursing	507
Psychology	497
Animal Science	473
General Business	430
Kinesiology	388
Nursing	368
Aerospace Engineering	360
Computer Science	357

TOP 5 GRADUATE MAJORS - MAIN CAMPUS

FALL 2010 - Masters	
Major	Head Count
Education	392
Undeclared	330
Business Administration	214
Social Work	150
Electrical Engineering	117

FALL 2020 - Masters	
Major	Head Count
Education	184
Social Work	172
Business Administration	171
Master of Public Health	152
Spanish	75

FALL 2010 - Doctorate	
Major	Head Count
Engineering	118
Curriculum and Instruction	106
Educational Administration	69
Biology	48
Chemistry	39

FALL 2020 - Doctorate	
Major	Head Count
Engineering	128
Curriculum and Instruction	69
Nursing Practice	68
Educational Administration	50
Computer Science	43

Preparing the Workforce of the Future

LEVERAGING SYSTEM-WIDE ASSETS



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NMSU Alignment with NM Economic Development Key Industry Sectors

Aerospace & Defense

Bachelor of Science Degree in Aerospace Engineering
Classified Ready Employable Workforce (CREW)
Center for Telemetry and Telemetering
Hypersonics
Internships and Co-Ops
Physical Science Laboratory

Bioscience

Carlsbad Environmental Monitoring Center
Nursing
Machine Learning in Bio-Informatics
Medical and Health Sciences
Nursing
Bio-based energy

Cyber-security

Bachelor of Science in Cyber-Security
Computer and Information Technology at DACC
Multi-disciplinary application
Agriculture
Defense
Financial Sector
Healthcare
Manufacturing

Film & Television

Bachelor of Creative Media
Creative Media Institute
Internships and Co-Ops

Global Trade

Arrowhead Business Accelerator
Arrowhead Studio G Business Incubator
Supply chain management

Intelligent Manufacturing

Bachelor of Science in Industrial Engineering
Bachelor of Science in Mechanical Engineering
Aggie Innovation Space and Shop
New – Multi-scale Materials Modeling and Characterization Engineering Center of Excellence

Sustainable Green Energy

Electric Utility Management Program (partnership with rural cooperatives and utilities)
Center for Public Utilities
Integrated Digitally-connected Enterprise Accelerator Laboratory (large-scale technology demonstration site under development)

Sustainable Value-Added Agriculture

Agriculture Modernization Initiative
Ag-based decarbonization
Multi-disciplinary applied research to support value-added agriculture

NMSU System Assets Supporting Economic Development



Branch Campuses

- Alamogordo
- Carlsbad
- Dona Ana
- Grants



Arrowhead Center

- Business Accelerators
- Studio G Incubator
- SBIR/STTR business programs
- NM SBA



12 Ag Science Centers

- Geographically unique
- Mission specific
- Value Added Agriculture
- Tech-to-Market demonstration site



Aggie Innovation Space

- State-of-art Makerspace and Shop
- Technology prototype and validation
- Industry sponsored student projects



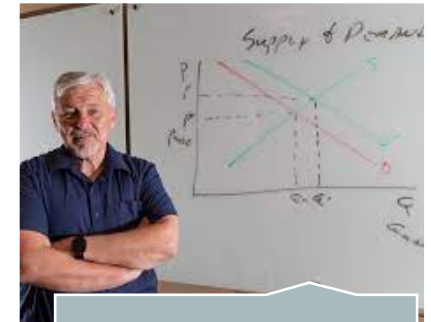
NM Produced Water Research Consortium



NM Water Resources Research Institute



Carlsbad Environmental Monitoring & Research Center



Center for Border Economic Development



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NMSU ON-DEMAND

The screenshot displays the NMSU On-Demand website. At the top, the title "NMSU On-Demand" is centered, followed by the subtitle "UpSkill, Re-Skill & New Skill with Digital Badging". Below this is a navigation bar with a search bar, "Categories" with a dropdown arrow, and "Refine" with a dropdown arrow. The main content area features four course cards, each with a "FREE" badge in the top left corner.

- Course 1:** "CANVAS STUDENT ORIENTATION PASSPORT TO CANVAS" by Academic Technology - Digital Learning. Description: "This course, Passport to Canvas, provides everything you need to know about using Canvas in your class(es). Canvas helps you: Keep track of the work you are assigned by your instructor, grades and...". It is self-paced and free.
- Course 2:** "WORKFORCE DEVELOPMENT AND CAREER READINESS" by Dona Ana Community College. Description: "This comprehensive 200-hour program will prepare students to work as a pharmacy technician in a retail or other pharmacy setting and to take the Pharmacy Technician Certification Board's PTCB...". It runs from May 1 to Aug 31, 2021, for \$1,750.
- Course 3:** "INTRODUCTION TO CANVAS" by Academic Technology - Digital Learning. Description: "This workshop provides the information and skills you need to start using Canvas, New Mexico State University's learning management system." It is self-paced and free.
- Course 4:** "CANVAS FACULTY ORIENTATION COURSE" by NMSU - Alamogordo. Description: "This course is designed to give faculty an overview of the tools available in Canvas. You will about learn the basic Canvas functionality you can use when you develop and deliver your online courses." It is self-paced and free.

- Alignment to degree programs
- Approved for prior learning credit (PLC)
- Tagged content, assessments, skills, dispositions, competencies
- High quality, industry driven, and portable

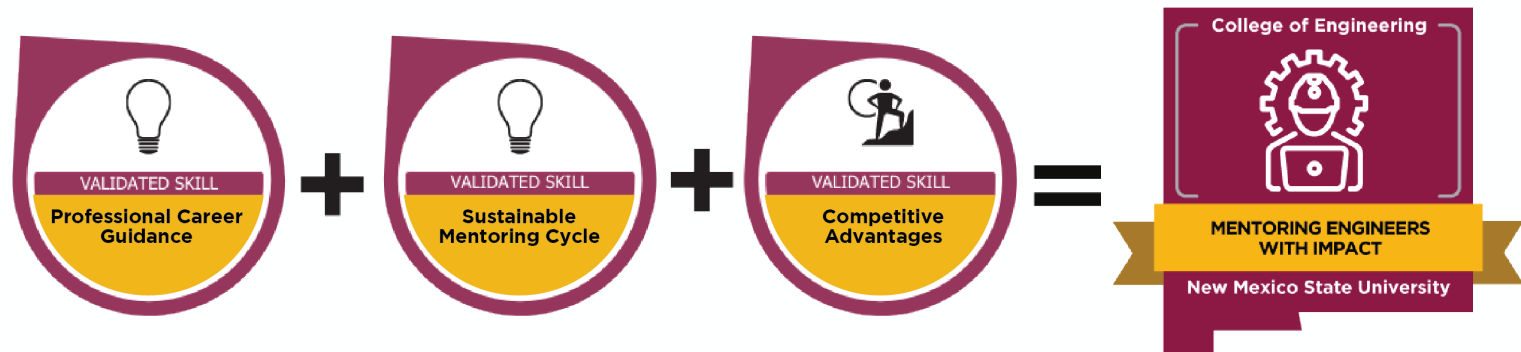
MICRO-CREDENTIALS

Authentic Assessments

To earn a credential, students will be required to demonstrate mastery of competency by passing assessments within learning modules. Many of these assessments will be skill-based projects and relevant business scenarios.

Stackable Credentials

Faculty members at NMSU will create stackable competencies/skills that lead to micro-credentials. Each micro-credential is made up of two to six competencies/skills, as shown below.



Colleges of Education and Health and Social Services Transformation

- **College of Health, Education and Social Transformation**

- Administrative combination of
 - College of Education
 - College of Health and Social Services
 - Department of Sociology

- **Goal**

- Create the first NMSU cradle of truly transdisciplinary research and education
- Create the home of knowledge creation to address the challenges of health and education in diverse communities
- Embed sociology theory and social transformation across the domains of health and education

- **Initial Motivation**

- Dozens of health-related programs disseminated across multiple colleges

- **Benefits**

- Facilitate the cross-training of students from complementary disciplines
- Facilitate development of innovative curricula at the intersection of social justice, health and education
- Facilitate the formation of interdisciplinary research team & enhance research competitiveness
- Prepare students to address health and educational challenges from rural and disadvantaged communities
- Enable new educational and research collaborations (e.g., BCOM)



HEERF I, II, & III Awards

NMSU System – One-time Funds

HEERF Funding Awards (System)	HEERF I - CARES Act	HEERF II - CRRSAA	HEERF III - ARPA (EST for MSI)	Total HEERF Funding Awards
Minimum Allocation for Emergency Financial Aid Grants to Students	\$ 7,038,180	\$ 7,038,180	\$ 25,075,650	\$ 39,152,010
Maximum Amounts for Institutional Portion	\$ 7,038,179	\$ 20,654,037	\$ 23,698,031	\$ 51,390,247
Total HEERF Funding Awards	\$ 14,076,359	\$ 27,692,217	\$ 48,773,681	\$ 90,542,257
Minority Serving Institutions Allocation	\$ 1,043,855	\$ 1,819,129	\$ 3,184,332	\$ 6,047,316

QUESTIONS



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