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New mexico state university masters programs

The University of New Mexico Graduate School offers affordable access to high-quality education, innovative programs, and supportive faculty to help students from diverse backgrounds succeed. With a strong reputation for research and a commitment to student success, NMSU Graduate School is one of the top 1.7% of global universities. The university offers various course delivery methods, including face-to-face, hybrid, and online formats. Face-to-face courses involve all components being delivered in person, while hybrid courses meet both in person and remotely at scheduled times. Online MAX courses consist of 100% online instruction, with some requiring regularly scheduled online meeting times. Additionally, the university supports off-campus study and research opportunities for graduate students, including internships, specialized techniques, and research at external facilities. These experiences should be arranged with the student's committee and graduate dean and offer flexibility in training while promoting valuable contacts between the student, university, industry, and research institutions. The Agricultural Experiment Station is a research division within the College of Agricultural, Consumer and Environmental Sciences, focusing on basic and applied research in food and fiber production, processing, and distribution, as well as consumer health and nutrition. This broad scope offers many opportunities for graduate students to undertake meaningful research investigations in both laboratory and field settings. There are eight academic departments on the main campus with excellent laboratory facilities available for research. The New Mexico State University (NMSU) maintains a vast network of research facilities, comprising 13 field centers and laboratories focused on agriculture, forestry, animal sciences, and more. The university offers financial support to graduate students working on various research projects, in collaboration with state and federal agencies, as well as the institution's own research institutes. For further details or inquiries, contact aesdean@nmsu.edu or visit . In addition to these initiatives, NMSU operates the Apache Point Observatory (APO) in south-central New Mexico, a premier astronomical research facility featuring four advanced telescopes, including a 3.5-meter optical and infrared imaging instrument. The observatory is managed by NMSU on behalf of the Astrophysical Research Consortium (ARC), which comprises several prominent universities worldwide. Researchers from NMSU's astronomy department utilize APO for various projects. For more information about APO, email astro@nmsu.edu. The university's Arts and Sciences Research Center serves as a central hub for all scholarly activities within the College of Arts and Sciences. Its key functions include providing administrative support to faculty members, managing grants and contracts, and fostering individual research initiatives across various disciplines. The center offers seed money grants and facilitates collaborations with other colleges and external organizations. To learn more about its services or inquire about potential funding opportunities, contact Dr. Michele Shuster at mshuster@nmsu.edu or visit . The Bioinformatics Research Lab at NMSU focuses on developing advanced computational and statistical methods to analyze complex biological systems. The lab's work involves rigorously evaluating the effectiveness of these methods in characterizing molecular interactions from high-throughput data sources such as next-generation sequencing results. The lab aims to develop advanced computational technology to enhance our understanding of life processes. For more information, contact Dr. Joe Song at joemsong@nmsu.edu or visit joemsong/group.shtml. The center for excellence in sustainable food and agricultural systems (cesfas) is located on a sprawling campus of 45 acres. It has a massive laboratory that spreads over 5000 sq ft and is designed to accommodate up to 24 animals individually in climate-controlled enclosures. The facility also boasts multiple insect breeding facilities for major ectoparasites including mosquitoes, lice, mites and ticks as well as house flies, stable flies, horn flies and face flies. Outdoor housing is available for 60 large animals under covered, individual stanchions. In addition to this, there are separate enclosures for wildlife species such as deer, elk, bighorn sheep and rabbits. Director Dr. Brandon G. Smythe oversees the operations of cesfas (bsmythe@nmsu.edu). Cesfas is a state-funded research institute within the College of Agricultural, Consumer, and Environmental Sciences. The primary goal of cesfas is to promote sustainable agriculture by conducting interdisciplinary research that draws on expertise from animal, food, plant and social sciences in collaboration with industry partners. This collaborative effort aims to generate new knowledge and technologies tailored specifically for New Mexico. For more information about cesfas's mission and activities, please visit their official website at . The Center for Latin American and Border Studies (CLABS) was established in 1979 with generous funding from the Nason Family. It is situated at the Nason House and is a part of the College of Arts and Sciences. CLABS's main objective is to facilitate the collection of resources at the NMSU library, support travel for faculty members to conferences, provide language training in Spanish and Portuguese, host lectures by visiting speakers and aid curriculum development for teachers. In recent years, CLABS has made significant contributions towards research on U.S.-Mexico border policy issues through collaborations with several universities across the United States and Mexico. If you're interested in learning more about CLABS's activities and programs, please visit their official website at . The Chemistry and Biochemistry Department is equipped with advanced instruments to support both research and teaching missions. This includes five nuclear magnetic resonance (NMR) spectrometers that range from low field (200 MHz) to high field (500 MHz), two atomic absorption spectrometers, several UV-Vis spectrometers, two mass spectrometers (LC/MS) and four gas chromatograph instruments. To access detailed information about the department's research facilities, please visit . For any questions or queries regarding instrumentation facilities, you can contact chembche@nmsu.edu. As a land-grant institution, New Mexico State University has a unique tripartite mission that encompasses instruction, research and extension services. The Cooperative Extension Service plays a pivotal role in this mission by serving as an integral part of the university's outreach activities. As mandated by its charter, the Cooperative Extension Service is the "leading object" in providing extension services to New Mexico residents. NMSU offers various academic programs like agriculture, home economics, engineering, business, health sciences, liberal arts, and natural sciences. The university's unique approach lies in its blend of teaching/learning, research, and extension/outreach functions that align with its land-grant mission. This mission involves extending the university's expertise to address social, economic, environmental challenges, and opportunities affecting New Mexico, the region, nation, and global community. The university's extension program organizes activities to bring its resources to citizens in a strategic way. Many faculty members have joint appointments with the Agricultural Experiment Station and advise graduate students interested in pursuing careers in extension. To learn more about this initiative, visit . Additionally, NMSU has the Core University Research Resources Laboratory (CURRL), which provides technical support for researchers needing microscopy services. This facility is administered through the Office of the Vice President for Research and offers state-of-the-art instrumentation and techniques for research and training. The university also houses the DISSECT Laboratory, established by a team of computer scientists and educators to nurture interactions between computational experts and educational researchers. This laboratory provides space and facilities to develop innovative technologies that expose K-12 students to fundamental computing principles. Furthermore, NMSU's College of Engineering has its Engineering Research Centers (ERC) which support faculty in building research programs of international excellence. The ERC assist with research funding, management, and compliance with laws and regulations. They also disseminate information on state, national, and international research trends and policies, as well as identify potential funding opportunities and calls for proposals. The Engineering Research Center (ERC) at NMSU brings together multi-disciplinary teams to tackle various research projects. It consists of several centers and programs, including Carlsbad Environmental Monitoring & Research Center, Bio-Mediated and Bio-Inspired Geotechnics, and National Alliance for Water Innovation. The ERC offers support for proposal preparation and post-award management through the Office of Engineering Research. The center is also home to various research laboratories, such as the Geochemistry Research Laboratory and the Knowledge Discovery and Data Mining (KDD) Research Laboratory, which provide access to state-of-the-art analytical instruments. The Data Mining (KDD) research laboratory is focused on developing effective techniques for managing complex data types such as sequence data, graph data, and semi-structured data. The lab conducts in-depth research in areas like modeling, storage, querying, and mining large datasets at both theoretical and practical levels. To enhance its reach, the lab maintains collaborations with experts from various Computer Science disciplines and other scientific fields. For more information, please visit their website at . The Networks and Systems Optimization Lab (NSOL) supports research in networking and communication, including wireless networks, the Internet, supercomputing networks, and online social networks. This involves tackling optimization problems, designing protocols and hardware, and implementing security measures to protect communications from threats like cyber attacks. The lab has a powerful 24 core blade server for extended simulations, five desktops, five laptops, four smartphones, and a networking testbed. For more details, please visit . The New Mexico Department of Agriculture (NMDA) oversees state laws and regulations affecting daily life in New Mexico. These laws cover agricultural products, weights and measures, petroleum products, and provide guidance to commodity groups for promoting their products. NMDA's director serves as the secretary of agriculture and acts as a liaison between the state government and agricultural industry. For more information, please contact pio@nmda.nmsu.edu or visit . The New Mexico State University Library is an essential resource on campus offering access to rich content and research-level collections in two library facilities. Zuhl and Branson libraries house over 1.8 million items, provide electronic access to scholarly journals and databases, and offer a variety of study areas including quiet spaces, group workspaces, and resources like PCs, scanners, and laptops. For assistance or more information, please visit . The New Mexico Water Resources Research Institute (WRRI) at NMSU has been a leading institution since its establishment in 1963. As one of the first water institutes in the United States, WRRI coordinates research projects with state universities and public agencies, providing approximately $1.5 million annually from federal, state, and private sources. The institute encourages graduate student participation, resulting in about 30 students receiving scientific training each year. Additionally, WRRI sponsors the Annual New Mexico Water Conference, which provides a public forum for state water issues since 1956. The institute also publishes research results and maintains a water resources reference room with access to documents on various water-related topics. Since 1991, NMSU has been a member of the Oak Ridge Associated Universities (ORAU) program. As part of this consortium, students and faculty gain access to federal research facilities nationwide, as well as opportunities for fellowships, scholarships, and research appointments. ORAU operates through the Oak Ridge Institute for Science and Education (ORISE), offering programs in various disciplines, including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. These opportunities range from one month to four years and aim to increase underrepresented minority students pursuing degrees in science- and engineering-related fields. The New Mexico State University (NMSU) offers a range of facilities and programs for research and education, including major federal facilities. These activities include faculty development programs such as the Ralph E. Powe Junior Faculty Enhancement Awards and the Visiting Industrial Scholars Program, consortium research funding initiatives, faculty research, and support programs. Additionally, there are services available to chief research officers. The Physics Department operates several advanced research facilities, including a PANalytical Empyrean x-ray diffractometer for low- and high-resolution powder diffraction, reciprocal space mapping, and x-ray reflectance. The department also has a J. A. Woollam variable angle of incidence ellipsometer (VASE) that can measure light patterns from 190 to 2500 nanometers at room temperature. The Play and Interactive Experiences for Learning Lab (PIxL) explores the intersection of games, human-computer interaction, and mixed reality, developing game experiences that educate and function as scientific experiments. The lab investigates various interfaces, including keyboard and mouse, controllers, gesture-based input, wearable systems, and mixed reality. The Programming Languages Environments and Software Engineering Laboratory (PLEASE) pursues research in the practical aspects of software development, including programming languages, programming environments, and software engineering. The laboratory is located in Science Hall 167 and provides workstations and workspace for graduate students pursuing research in relevant areas. The Psychology Department conducts research in social psychology, engineering psychology, and cognitive psychology, focusing on topics such as mother-infant interactions, cortisol responses to stress, visual search, human factors research, auditory perception, prospective memory, emotion and social decision-making, evolutionary psychology, skill acquisition, social cognition, perception and action, embodied cognition, and cognitive neuroscience. The department facilitates data collection from small groups or individuals through its online system for managing research in the subject pool. State-of-the-art facilities are also available, including an EyeLink 1000 eye tracking system with experiment builder software and two 128-channel EEG systems. Additionally, there is a Neuroconn DC Stimulator Plus tDCS stimulator and eight analysis workstations. The lab collaborates with the Mind Research Network for access to advanced equipment like MRI and MEG scanners. Research initiatives are also ongoing within the College of Health, Education, and Social Transformation (HEST). The Kinesiology Department offers laboratory space for various studies, including biomechanics, sport psychology, and motor learning. The Speech and Hearing Center's Benfer facility is dedicated to voice and speech science research. Other areas of focus include special education and autism research through the Autism Research Initiative. The Institute for Mathematics and Science Education oversees multiple grants and serves as the STEM Outreach Center for K-12 education. The Counseling and School Psychology Training and Research Center provides counseling services, training for graduate students, and conducts research on counseling outcomes. A Reading Research Center at the NMSU Children's Village offers reading diagnostic services using eye-tracking software. New Mexico State University has established the Southwest Institute for Health Disparities Research to address health disparities in Southern New Mexico and the U.S./Mexican Border Region. The institute aims to secure external funding, conduct research reducing health disparities, and provide community outreach programming related to health. Training at NMSU Fosters Funding, Diversity, and Collaboration NMSU's various research centers aim to enhance the institution's research capabilities. The New Mexico State University Museum provides quality education, advances research, and celebrates southwest culture through its collection of ethnographic, historic, and prehistoric objects. The museum serves as a repository and exhibitor for local and regional history, promoting faculty and student research using its diverse cultural materials. The Master of Social Work program at NMSU aims to prepare graduates to promote human well-being through ethical and evidence-informed practice in culturally diverse environments. Its specific goals include preparing students for advanced generalist social work practice, multidimensional practice, and commitment to social justice and leadership within complex settings.