NM STATE UNIVERSITY College of Engineering

US News and World Report Rankings

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NM STATE UNIVERSITY

Priority in the Breadth of Vision

During strategic planning discussions, it is important for us to keep in mind:

- The national ranking of NMSU and the CoEngr,
- The process for ranking engineering programs, and
- Comparison to our peer institutions

National ranking is important to faculty and stakeholders, and NMSU will be comparing itself to its peer institutions.

In the breadth of vision:

- National ranking,
- Peer comparison, and
- Excellence in the four core, program goals.

Core Engineering Program Goals

- Maintaining undergraduate retention and 6 yr graduation rates within +/- 5 points of the national average (50%); delivering a curriculum that graduates industry- and graduate school-ready engineers who value their education and CoEngr at time ofdegree completion.
- Maintaining robust external funding of research (in technology development and engineering education) led by graduate faculty at an average funding/expenditure rate of $150-200K/faculty/year ($10-13 million/yr for 68 faculty in the 5 graduate engineering departments, 82 total faculty), plus funding for CEMRC, IEE, AMP, M-TEC and SWTDI above the faculty base.

Core Engineering Program Goals

- Maintaining a strong enrollment of high achieving graduate students with a priority of graduating 20-25 PhDs per year (1.0-1.25 PhDs per faculty in a 3-5 year cycle among the five graduate engineering departments, 68 graduate faculty).
- Leading the state in engineering outreach and public service initiatives that support our pre-college and professional engineering constituents (as compared to UNM and NM Tech).

US News and World Report Ranking Criteria

- **Quality assessment (weighted by 0.40)**
- **Peer assessment score (0.25):** each fall, engineering deans rate programs marginal (1) to outstanding (5), or "don't know."
- **Recruiter assessment score (0.15):** each fall, corporate recruiters and company contacts rate programs marginal (1) to outstanding (5), or "don't know." Names surveyed provided by the schools.
- **Student selectivity (weighted by 0.10)**
- **Mean GRE quantitative scores (0.0675):** mean quantitative score of the GRE for master's and doctoral students entering in fall.
- **Acceptance rate (0.0325):** proportion of applicants to the master's and doctoral programs who were offered admission for fall.
- **Faculty resources (weighted by 0.25)**
- **Student-faculty ratio:** ratio of full-time doctoral students to full-time faculty (0.075) and full-time master's students to full-time faculty (0.0375) in fall.
- **Percent of faculty in the National Academy of Engineering (0.075):** proportion of full-time faculty members of the National Academy of Engineering.
- **Doctoral degrees awarded (0.0625):** total number of doctoral degrees granted in the school year.
- **Research activity (weighted by 0.25)**
- **Total research expenditures (0.15):** total externally funded engineering research expenditures, public and private, averaged over two fiscal years. The definition for research expenditures is set by ASEE.
- **Average research expenditures per faculty member (0.10):** average amount of externally funded research expenditures per full-time faculty member averaged over two fiscal years.

NM STATE UNIVERSITY

University of Illinois at Urbana-Champaign

- Let's take a look at a nationally ranked engineering school, University of Illinois at Urbana-Champaign:
- http://engineering.illinois.edu/academics/rankings.html
- Let's look at NMSU's overall ranking:
- http://premium.usnews.com/best-colleges/rankings/national-universities/data/page+8

US News Engineering College Ranking Peer Institutions (2013)

- Iowa State University – 46
- University of Arizona – 55
- Colorado State University – 67
- Oregon State University – 78
- Washington State University – 81
- ***University of New Mexico – 87***
- Texas Tech – 94
- Kansas State University – 99
- Oklahoma State University – 110
- Utah State University – 116
- ***New Mexico State University – 129***
- University of Nevada Reno – 129
- University of Wyoming – 136
- Montana State University – Unranked
- University of Idaho – Unranked
- ***University of Texas at El Paso – Unranked***
- ***New Mexico Tech – Not in Data Base***

US News CHME Department Ranking Peer Institutions (2013)

31. Iowa State University
50. University of Arizona
57. Colorado State University
68. Oregon State University
68. Texas Tech University
74. Kansas State University
84. Oklahoma State University

<u>No CHME program:</u>

- University of Texas at El Paso
- University of North Texas
- Utah State University

<u>Not published:</u>

- University of Idaho
- Montana State University
- University of Nebraska- Lincoln
- University of New Mexico
- New Mexico State University
- Washington State University
- University of Wyoming

US News CE Department Ranking Peer Institutions (2013)

- Iowa State University – 31
- University of Arizona – 41
- Colorado State University – 31
- Oregon State University – 46
- Washington State University – 47
- ***University of New Mexico – 91***
- Texas Tech – 68
- Kansas State University – 68
- Oklahoma State University – 84
- Utah State University – 53
- ***New Mexico State University – 99***
- University of Nevada Reno – 53
- University of Wyoming – 84
- Montana State University – Unranked
- University of Idaho – Unranked
- ***University of Texas at El Paso – Not Found***
- ***New Mexico Tech – Not Found***

US News ECE Department Ranking Peer Institutions (2013)

- Iowa State University – 41
- University of Arizona – 34
- Colorado State University – 64
- Oregon State University – 77
- Washington State University – 77
- ***University of New Mexico – 64***
- Texas Tech – 77
- Kansas State University – 77
- Oklahoma State University – 89
- Utah State University – 114
- ***New Mexico State University – 114***
- University of Nevada Reno – Unranked
- University of Wyoming – Unranked
- Montana State University – Unranked
- University of Idaho – 133
- ***University of Texas at El Paso – 127***
- ***New Mexico Tech – Not in Data Base***

US News IE Department Ranking Peer Institutions (2013)

- Iowa State University – 25
- University of Arizona – 25
- Colorado State University – 75
- Oregon State University – 51
- Washington State University – N
- ***University of New Mexico – N***
- Texas Tech – 51
- Kansas State University – 51
- Oklahoma State University – 42
- Utah State University – N
- ***New Mexico State University – 70***
- University of Nevada Reno – N
- University of Wyoming – N
- Montana State University – Unranked
- University of Idaho – Unranked
- ***University of Texas at El Paso – Unranked***
- ***New Mexico Tech – Not in Data Base***

N: No Industrial, Manufacturing or Systems Engineering Programs.

US News MAE Ranking
Peer Institutions (2013)

Engineering and Graduate programs	Overall	ME	AE
Iowa State University	46	36	26
University of Arizona	55	52	26
Washington State University	81	57	NA
Oregon State University	78	61	NA
Colorado State University	67	71	NA
Kansas State University	99	79	NA
University of New Mexico	87	79	NA
Oklahoma State University	110	97	54
Texas Tech (Lubbock)	94	97	NA
Utah State University	116	109	NA
New Mexico State University	**129**	**119**	**43**
University of Wyoming	136	119	NA
Montana State University	RNP	132	NA
University of Nevada (Reno)	129	132	NA
University of Idaho	UR	RNP	NA
University of Texas at El Paso	RNP	RNP	NA

RNP=Ranked not Published. Bottom ¼. US News calculated a numerical rank but does not publish it.
UR=Unranked. School did not supply enough information to US News to calculate ranking.
19 UG programs in ME are listed (ranked). None in peer group.
17 UG programs in AE are listed (ranked). None in peer group.