

IMPACT & OUTLOOK 2017 - 2018

STEM Collaborative Center

DIVISION OF STUDENT AFFAIRS

Who We Are

The STEM Collaborative Center promotes collaboration between UNM departments, and develops STEM engagement opportunities for first and second year UNM students. STEM is an acronym for Science, Technology, Engineering and Mathematics.

Mission

- Collaborate & Strengthen. Collaborate with UNM STEM programs to strengthen UNM STEM education efforts.
- Engage & Connect. Engage students in STEM exploration and enrichment activities. Connect students to STEM departments and support programs.

Vision

Diversity and Equity in STEM Professions



Impact on Students

STCC programs introduce students to the technology, concepts, mentors, peers and skills needed to become effective leaders in STEM professions.



Programs, Services, Sub-units and Initiatives

PROGRAM	Academic Affairs Engagement	UNM5
STEM University provides students with co-curricular learning opportunities focused on STEM technology, concepts, peers and professionals. These activities are offered primarily in the fall and summer. Example: Conducting invertebrate research on the Bosque with a collections manager from the Museum of Southwest Biology.	Extensive	Professionalism Research & Assessment Communication
STEM Leadership provides students with mentorship and other learning opportunities focused on career development, leadership skills, presentation skills and advanced critical thinking. These activities are offered year round. Example: Fall/spring mentorship program that pairs students with scientists and engineers at the Air Force Research Lab.	Minimal	Critical Thinking Research & Assessment Collaboration
Discover STEM provides students with brief conference-style introductions to STEM concepts and opportunities at UNM. These activities are offered year round. Example: Discover Your Science Day for incoming freshmen.	Minimal	Professionalism Communication
STEM Collaborations provides limited funding, facilitation and other resources to UNM STEM-serving departments and initiatives that increase overall effectiveness. Example: Support for the development of a Math 121 & Chem 121 Freshman Learning Community designed to move students through those two courses in one semester, instead of two.	Extensive	These programs are not designed to serve students directly, and do not have learning outcomes assigned.
State of STEM Report provides the institution with an annual assessment of UNM strengths and opportunities relative to undergraduate STEM education.	Extensive	
STEM Data provides UNM stakeholders with the data to design and measure STEM programming.	Moderate	



Fiscal Update, Revenues

Source	Amount
US Department of Education, Hispanic Serving Institutions Initiatives	\$520,000/year

Goals for 2018-19

1. Institutionalize successful STCC initiatives, in preparation for program-end in September of 2019.
2. Work with UNM departments and divisions to explore, design and fund an undergraduate research center.
3. Support institutional efforts to improve STEM gateway instruction and co-curricular STEM programming.
4. Manage program and grant close-out processes.



Selected Impacts and Outcomes

STEM UNIVERSITY DEMOGRAPHICS AND IMPACTS	STEM University Participants (n=235)	UNM STEM Undergraduate Students (n=11,046)
Percent Hispanic	44%	48%
Percent First-Year who are First Generation	35%	36%
Percent Pell Receiving, Fall 2017	36%	34%
Percent First or Second Year Students	42%	38%
Average High School GPA	3.5	3.4
Average ACT Composite	24.4	22.5
Average UNM Cumulative GPA, end of Spring 2018	3.37	3.16
Percent Returned or Graduated, Fall 17 to Spring 18	97%	89%

Note: These descriptive comparisons are not intended to imply causality or statistical correlation.

Quick Facts

- ♻️ STEM University served 235 students in 2016-2017 academic year
- ♻️ STCC offered more than 50 STEM events in 2016-17 academic year
- ♻️ STCC served 357 Discover STEM students through the CEP Opt-In Program
- ♻️ STCC supported the AA Faculty Fellows Program, led by the UNM Provost Office