

University of New Mexico Main Campus STEM Benchmarking Data (Broad STEM Definition) October 2019

INTRODUCTION

The following data has been collected by the UNM Office of Institutional Analytics in cooperation with the UNM STEM collaborative Center. This report is designed to assist UNM faculty and administrators track UNM undergraduate STEM student achievement outcomes over time.

The UNM STEM Collaborative Center is a five-year initiative funded by the US Department of Education Title V Program. The STEM Collaborative Center seeks to improve STEM education for all UNM undergraduate students, with a high priority placed on improving STEM education for Hispanic and low-income students. For more information on the STEM Collaborative, visit http://stem.unm.edu.

The term "STEM" refers to science, technology, engineering, and mathematics disciplines. The specific academic majors and disciplines included within STEM vary. For instance, the National Science Foundation sometimes uses a broad definition that includes health science, economics, and science education. The Department of Homeland Security uses a narrow definition that excludes these areas.

The data included in this report uses the broader STEM definition, and includes the majors listed in Appendix A.

This report was funded by the UNM STEM Collaborative Center. The Collaborative's charge includes improvement of STEM education for all undergraduate students, with a high priority placed on Hispanic and low-income students. Consequently, this report details achievement for three main cohorts:

- All undergraduate students
- Undergraduate students who are Hispanic and/or come from low-income backgrounds
- Undergraduate students who are NOT Hispanic and/or come from low-income backgrounds

These three cohorts do not provide UNM with a broad enough picture to fully benchmark STEM achievement. Over the next year, the STEM Collaborative and the Office of Institutional Analytics will create a customizable dashboard that will allow users to benchmark data for multiple ethnicities, income levels, and majors (among other variables).

DEFINITIONS

General Student Population: Full-time and part-time undergraduate students who are enrolled in credit-bearing courses delivered from the UNM Main Campus.

First-Year Students: Students who are attending college for the first time, either as full-time or part-time students. Students who completed dual credit in high school but who have not yet attended college after high school are included as first-year students. Students who have completed any college credits after graduating from high school are not counted as first-year students.

STEM Interested Student: Students who have declared a STEM or pre-STEM major. See Appendix A for list of majors, pre-majors and concentrations.

Low-Income Student: Degree seeking students who completed the FAFSA for the specified academic year, and who have an estimated family contribution less than \$5199 for that year. This EFC threshold is an estimate of when students may receive a Pell Grant.

Hispanic Student: Student who has self-declared as Hispanic on their application for admission.

Hispanic and/or Low-Income Students: Student who fits within either category of Hispanic student or low-income student. For instance, a student who is Hispanic but not low-income fits within the category of Hispanic and/or low-income. A student who is neither Hispanic nor low-income does not fit within this category.

First-generation Student: Degree seeking students who completed the FAFSA for the specified academic year, and who indicated that: (1) if from two-parent household, that neither of their parents attended college, or (2) if from one-parent household, that their parent did not attend college.

LIMITATIONS

Ethnicity, income and first generation data rely on student self-reporting. Consequently, these classifications are not independently verified.

Income levels are only reported for students who complete the FAFSA. Students who do not complete the FAFSA are assumed to not fit into the low-income student classification.

STEM interest is defined by student choice of major, pre-major or concentration. Accuracy for this classification is reliant on students updating their selections of majors in a timely fashion.

PART ONE: ALL UNDERGRADUATE STUDENTS (All ethnicities, all income levels)

Part One, Section One: INTEREST IN STEM

| | Table 1. First-Year STEM-Interested Students | | | | | | | | | | | |
|---------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | | |
| Number of | | | | | | | | | | | | |
| first-year | 3409 | 3585 | 3340 | 3424 | 3517 | 3132 | 3327 | 3389 | 3200 | 2637 | | |
| students | | | | | | | | | | | | |
| Number of | | | | | | | | | | | | |
| first-year | | | | | | | | | | | | |
| students | 1343 | 1469 | 1515 | 1623 | 1724 | 1674 | 1771 | 1755 | 1629 | 1377 | | |
| interested | | | | | | | | | | | | |
| in STEM | | | | | | | | | | | | |
| Percentage | | | | | | | | | | | | |
| of first-year | | | | | | | | | | | | |
| students | 39.40% | 40.98% | 45.36% | 47.40% | 49.02% | 53.45% | 53.23% | 51.79% | 50.91% | 52.22% | | |
| interested | | | | | | | | | | | | |
| in STEM | | | | | | | | | | | | |

| | Table 2. First-Year STEM-Interested Students and Ethnicity | | | | | | | | | | | | |
|---|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | | | |
| Total Number of first-year students interested in STEM | 1343 | 1469 | 1515 | 1623 | 1724 | 1674 | 1771 | 1755 | 1629 | 1377 | | | |
| Number of first- year STEM- interested students who are Hispanic | 559 | 707 | 733 | 775 | 865 | 821 | 914 | 921 | 874 | 695 | | | |
| Percentage | 41.62% | 48.13% | 48.38% | 47.75% | 50.17% | 49.04% | 51.61% | 52.48% | 53.65% | 50.47% | | | |
| Number of first- year STEM- interested students who are African American | 50 | 40 | 36 | 35 | 43 | 30 | 33 | 35 | 32 | 42 | | | |
| Percentage | 3.72% | 2.72% | 2.38% | 2.16% | 2.49% | 1.79% | 1.86% | 1.99% | 1.96% | 3.05% | | | |
| Number of first- year STEM- interested students who are Asian | 62 | 40 | 69 | 73 | 71 | 97 | 90 | 87 | 84 | 89 | | | |
| Percentage | 4.62% | 2.72% | 4.55% | 4.50% | 4.12% | 5.79% | 5.08% | 4.96% | 5.16% | 6.46% | | | |
| Number of first- year STEM- interested students who are American Indian | 92 | 72 | 93 | 96 | 80 | 49 | 67 | 79 | 77 | 59 | | | |
| Percentage | 6.85% | 4.90% | 6.14% | 5.91% | 4.64% | 2.93% | 3.78% | 4.50% | 4.73% | 4.28% | | | |
| Number of first- year STEM- interested students who are Native Hawaiian | 0 | 4 | 4 | 3 | 0 | 3 | 5 | 8 | 1 | 2 | | | |
| Percentage | 0.00% | 0.27% | 0.26% | 0.18% | 0.00% | 0.18% | 0.28% | 0.46% | 0.06% | 0.15% | | | |
| Number of first- year STEM- interested students who are White | 497 | 533 | 492 | 544 | 546 | 571 | 562 | 494 | 456 | 386 | | | |
| Percentage | 37.01% | 36.28% | 32.48% | 33.52% | 31.67% | 34.11% | 31.73% | 28.15% | 27.99% | 28.03% | | | |
| Number of first- year STEM- interested students who are two or more races | 0 | 49 | 61 | 74 | 75 | 67 | 61 | 64 | 55 | 59 | | | |
| Percentage | 0.00% | 3.34% | 4.03% | 4.56% | 4.35% | 4.00% | 3.44% | 3.65% | 3.38% | 4.28% | | | |

| Number of first- year STEM- interested students who are non-resident alien | 9 | 9 | 12 | 12 | 27 | 28 | 30 | 51 | 40 | 30 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Percentage | 0.67% | 0.61% | 0.79% | 0.74% | 1.57% | 1.67% | 1.69% | 2.91% | 2.46% | 2.18% |
| Number of first- year STEM- interested students who are race/ethnicity unknown | 74 | 15 | 15 | 11 | 17 | 8 | 9 | 16 | 10 | 15 |
| Percentage | 5.51% | 1.02% | 0.99% | 0.67% | 0.98% | 0.47% | 0.51% | 0.91% | 0.61% | 1.09% |

| | Та | ble 3. Pre- | College Ac | ademic Pre | paration a | nd STEM F | irst-Year S | tudents | | |
|---|---------|-------------|------------------|------------|------------|-----------|-------------|---------|---------|---------|
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| Average high school GPA for first-year students interested in STEM | 3.31 | 3.35 | Not available | 3.419 | 3.407 | 3.441 | 3.416 | 3.43 | 3.45 | 3.47 |
| Average ACT composite score for first-year students interested in STEM | 22.46 | 22.52 | 22.61 | 22.61 | 22.83 | 23.06 | 22.84 | 22.73 | 22.67 | 22.79 |
| Average SAT combined score for first-year students interested in STEM | 1113.98 | 1140.30 | 1089.26 | 1110.33 | 1112.15 | 1119.05 | 1106.46 | 1106.56 | 1105.32 | 1177.86 |

| | Table 4. Financial Aid and STEM First-Year Students | | | | | | | | | | | | |
|---|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | | | |
| Total Number of first-year students interested in STEM | 1343 | 1469 | 1515 | 1623 | 1724 | 1674 | 1771 | 1755 | 1629 | 1377 | | | |
| Number who | | | | | | | | | | | | | |
| completed the FAFSA | 1170 | 1302 | 1373 | 1463 | 1540 | 1499 | 1583 | 1589 | 1456 | 1241 | | | |
| Percentage | 87.12% | 88.63% | 90.63% | 90.14% | 89.33% | 89.55% | 89.39% | 90.54% | 89.38% | 90.12% | | | |
| Number with EFC < \$5199 | 512 | 591 | 653 | 689 | 730 | 698 | 768 | 768 | 765 | 628 | | | |
| Percentage | 38.12% | 40.23% | 43.10% | 42.45% | 42.34% | 41.70% | 43.37% | 43.76% | 46.96% | 45.61% | | | |
| Number who indicated first generation status | 339 | 334 | 381 | 403 | 423 | 387 | 416 | 415 | 386 | 267 | | | |
| Percentage | 25.24% | 22.74% | 25.15% | 24.83% | 24.54% | 23.12% | 23.49% | 23.65% | 23.70% | 19.39% | | | |

Table 5. Total Undergraduate Interest in STEM: All Undergraduate STEM-Interested Students (not restricted to first-year students) 2010-11 2009-10 2011-12 2012-13 2013-14 2014-15 2015-16 2016-17 2017-18 2018-19 Number of ALL full-time students, not 17086 17942 18042 18046 18130 17618 17354 17197 16321 14853 just those interested in STEM Number of STEMinterested 7868 8339 8538 8840 9025 8839 8088 8672 8091 7504 full-time students Percentage of all full-time students who 46.05% 46.48% 47.32% 48.99% 49.78% 50.17% 50.80% 50.52% 50.43% 49.57% are interested in STEM Number of ALL part-time and full-time 21283 21489 20503 18811 22317 students, not 21580 22793 23064 23128 23027 just those interested in STEM Number of STEMinterested 10096 10781 10977 11345 11540 11277 10901 10622 10037 9335 part-time and full-time students Percentage of all part-time and full-time 50.73% 49.81% 48.95% 49.63% 46.78% 47.30% 47.59% 50.12% 50.53% 49.05% students who are interested

in STEM

| | Table 6. Average Cumulative GPA for STEM-Interested Undergraduate Students | | | | | | | | | | | | | |
|---|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|--|
| | (not restricted to first-year students) | | | | | | | | | | | | | |
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | | | | |
| Average Cumulstyive GPA for all STEM- interested undergraduate students, based on end of academic year data | 3.13 | 3.14 | 3.13 | 3.12 | 3.13 | 3.14 | 3.10 | 3.12 | 3.09 | 3.21 | | | | |

Part One, Section Two: GRADUATION IN STEM

| Table 7. V | Table 7. Within Four-year STEM Graduation for First-Year Students Interested in STEM | | | | | | | | | | | | | |
|----------------------|--|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | | | | | | | |
| | cohort | cohort | cohort | cohort | cohort | cohort | cohort | | | | | | | |
| Number of first-year | | | | | | | | | | | | | | |
| STEM-interested | | | | | | | | | | | | | | |
| students who | 157 | 193 | 212 | 290 | 351 | 402 | 451 | | | | | | | |
| graduated in STEM | | | | | | | | | | | | | | |
| within four years | | | | | | | | | | | | | | |
| Percentage of first- | | | | | | | | | | | | | | |
| year STEM-interested | | | | | | | | | | | | | | |
| students who | 11.69% | 13.14% | 13.99% | 17.87% | 20.36% | 24.01% | 25.47% | | | | | | | |
| graduated in STEM | | | | | | | | | | | | | | |
| within four years | | | | | | | | | | | | | | |

| Table 8. Within Five-year STEM Graduation for First-Year Students Interested in STEM | | | | | | | | | | | | |
|---|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | | | | | | |
| | cohort | cohort | cohort | cohort | cohort | cohort | | | | | | |
| Number of first-year STEM- interested students who graduated in STEM within five years | 350 | 361 | 431 | 503 | 581 | 665 | | | | | | |
| Percentage of first-year STEM- interested students who graduated in STEM within five years | 26.06% | 24.57% | 28.45% | 30.99% | 34.71% | 39.73% | | | | | | |

| Table 9. Within Six-year STEM Graduation for First-Year Students Interested in STEM | | | | | | | | | | | | |
|--|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | | | | | | | |
| | cohort | cohort | cohort | cohort | cohort | | | | | | | |
| Number of first-year STEM-interested students who graduated in STEM within six years | 429 | 436 | 493 | 571 | 642 | | | | | | | |
| Percentage of first-year STEM-interested students who graduated in STEM within six years | 31.94% | 29.68% | 32.45% | 35.18% | 37.24% | | | | | | | |

Part One, Section Three: RETENTION OF STEM STUDENTS

| | Table 10. Second Year Retention of First-Year Students Interested in STEM ¹ | | | | | | | | | | | | |
|---|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | | | |
| Number of first-year STEM students who returned to UNM for their second year | 1055 | 1114 | 1167 | 1294 | 1362 | 1342 | 1436 | 1381 | 1211 | 1049 | | | |
| Percentage of first-year STEM students who returned to UNM for their second year | 78.56% | 75.83% | 77.03% | 79.73% | 79.00% | 80.17% | 81.08% | 78.69% | 74.34% | 76.18% | | | |

| Ta | Table 11. Third Year Retention of First-Year Students Interested in STEM ¹ | | | | | | | | | | | | |
|--|---|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|--|
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | | | | |
| Number of first-year STEM students who returned to UNM for their third year | 916 | 934 | 1001 | 1121 | 1154 | 1175 | 1242 | 1132 | 1030 | | | | |
| Percentage of first-year STEM students who returned to UNM for their third year | 68.21% | 63.58% | 66.07% | 69.07% | 66.94% | 70.19% | 70.12% | 64.50% | 63.23% | | | | |

| Table 12. Fo | Table 12. Fourth Year Retention of First-Year Students Interested in STEM ¹ | | | | | | | | | | | | |
|--|--|---------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | | | | | |
| Number of first-year STEM students who returned to UNM for their fourth year | 817 | 854 | 914 | 961 | 1039 | 1043 | 1040 | 985 | | | | | |
| Percentage of first-year STEM students who returned to UNM for their fourth year | 60.83% | 58.13% | 60.33% | 59.21% | 60.27% | 62.31% | 58.72% | 56.13% | | | | | |

¹Retention is defined as students enrolling in credit-bearing courses in the fall of the cohort academic year, and also enrolled in credit-bearing courses in the fall of the subsequent academic year. Retention does not include STEM persistence. For instance, a first-year STEM student who returns the second year as a History major counts as being retained. STEM degree persistence is measured in Section Four.

| | | Table 1 | 3. Full- | Time Ur | ndergra | duate S1 | ΓΕΜ Stu | dent Re | turn or | Gradua | te Rate ¹ | | | |
|--|-------|---------|----------|---------|---------|----------|---------|---------|---------|--------|----------------------|--------|--------|--------|
| | Fall | Spring | Fall | Spring | Fall | Spring | Fall | Spring | Fall | Spring | Fall | Spring | Fall | Spring |
| Normals are of facili | 2012 | 2013 | 2013 | 2014 | 2014 | 2015 | 2015 | 2016 | 2016 | 2017 | 2017 | 2018 | 2018 | 2019 |
| Number of full- time STEM undergraduate students at UNM | 7430 | 7094 | 7771 | 7162 | 7728 | 6959 | 7807 | 7047 | 7741 | 6885 | 7195 | 6425 | 6553 | 5942 |
| Number who graduated before the next full semester | 333 | 720 | 359 | 835 | 317 | 795 | 306 | 815 | 298 | 855 | 283 | 907 | 273 | 829 |
| Number who returned for the next full semester | 6060 | 5133 | 6309 | 5035 | 6285 | 4999 | 6403 | 4951 | 6263 | 4705 | 5780 | 4289 | 5278 | NA |
| Total number of returners & graduators | 6393 | 5853 | 6668 | 5870 | 6602 | 5794 | 6709 | 5766 | 6561 | 5560 | 6063 | 5196 | 5551 | NA |
| Percentage of students who returned or graduated | 86.0% | 82.5% | 85.8% | 82.0% | 85.4% | 83.3% | 85.9% | 81.8% | 84.8% | 80.6% | 84.3% | 80.9% | 84.71% | NA |

¹This benchmarking measure is designed to compare cohorts of students of various academic standings (for instance, a cohort that includes first-year students, sophomores, juniors and seniors). To measure the impact of a UNM intervention upon such a cohort, traditional retention measures may not be adequate. For instance, suppose a group of sophomores, juniors and seniors participate together in an undergraduate research project. In measuring the impact of this experience on student persistence, it would be meaningless to look at second-year retention rates, since all of these students are already passed their second years. Similarly, measuring third-year retention rates is inadequate, since some of the students have already passed this point as well. The Return or Graduate rate assumes that it is in the best interest of students to continue their educational careers through graduation. So if the students return the next semester, or if they graduate, then they are making successful progress.

Return or graduate rates are not exclusive to first-time students. They include all undergraduate enrolled students who are interested in STEM. Likewise, return or graduate does not include STEM degree persistence. STEM degree persistence is measured in Section Four.

Part One, Section Four: STEM DEGREE PERSISTENCE

| Table | Table 14. First-Year STEM Students Dropping Out of UNM and/or Switching Out of STEM, | | | | | | | | | | | |
|---|--|---------|---------|-----------|---------------------|---------|---------|---------|---------|---------|--|--|
| | | | | before 2 | ^{end} year | | | | | | | |
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | | |
| | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | | |
| Number of first-year students interested in STEM | 1343 | 1469 | 1515 | 1623 | 1724 | 1674 | 1771 | 1755 | 1629 | 1377 | | |
| | | | BEFORE | BEGINNING | OF SECON | ID YEAR | | | | | | |
| Number who drop out of UNM before their second year | 288 | 355 | 348 | 329 | 362 | 332 | 335 | 363 | 418 | 328 | | |
| Percentage who drop out of UNM before their second year | 21.44% | 24.17% | 22.97% | 20.27% | 21.00% | 19.83% | 18.92% | 20.68% | 25.66% | 23.82% | | |
| Number who stayed at UNM, but changed majors out of STEM before their second year | 143 | 155 | 137 | 144 | 159 | 172 | 154 | 125 | 123 | 76 | | |
| Percentage who stayed at UNM, but changed majors out of STEM before their second year | 10.65% | 10.55% | 9.04% | 8.87% | 9.22% | 10.27% | 8.70% | 7.12% | 7.55% | 5.52% | | |
| Total Number who dropped or changed major out of STEM before second year | 431 | 510 | 485 | 473 | 521 | 504 | 489 | 488 | 541 | 404 | | |
| Percentage who dropped or changed majors out of stem before second year | 32.09% | 34.72% | 32.01% | 29.14% | 30.22% | 30.11% | 27.61% | 27.81% | 33.21% | 29.34% | | |

| Tab | Table 15. First-Year STEM Students Dropping Out of UNM and/or Switching Out of STEM, | | | | | | | | | | | |
|---|--|---------|---------|------------|----------------------|---------|---------|---------|---------|---------|--|--|
| | | | | before | 3 rd year | | | | | | | |
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | | |
| | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | | |
| Number of first- year students interested in STEM | 1343 | 1469 | 1515 | 1623 | 1724 | 1674 | 1771 | 1755 | 1629 | 1377 | | |
| | | | BEFO | RE BEGINNI | NG OF THIE | RD YEAR | | | | | | |
| Number who drop out of UNM before their third year | 427 | 535 | 514 | 502 | 570 | 499 | 529 | 623 | 599 | NA | | |
| Percentage who drop out of UNM before their third year | 31.79% | 36.42% | 33.93% | 30.93% | 33.06% | 29.80% | 29.87% | 35.50% | 36.77% | NA | | |
| Number who stayed at UNM, but changed majors out of STEM before their third year | 306 | 334 | 298 | 315 | 349 | 354 | 320 | 310 | 284 | NA | | |
| Percentage who stayed at UNM, but changed majors out of STEM before their third year | 22.78% | 22.74% | 19.67% | 19.41% | 20.24% | 16.37% | 18.07% | 17.66% | 17.43% | NA | | |
| Total Number who dropped or changed major out of STEM before third year | 733 | 869 | 812 | 817 | 919 | 773 | 849 | 933 | 884 | NA | | |
| Percentage who dropped or changed majors out of stem before third year | 54.58% | 59.16% | 53.60% | 50.34% | 53.31% | 46.18% | 47.93% | 53.16% | 54.27% | NA | | |

| Tab | Table 16. First-Year STEM Students Dropping Out of UNM and/or Switching Out of STEM, before 4 th year | | | | | | | | | | | |
|--|---|---------|---------|------------|------------|----------|---------|---------|---------|---------|--|--|
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | | |
| | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | | |
| Number of first- year students interested in STEM | 1343 | 1469 | 1515 | 1623 | 1724 | 1674 | 1771 | 1755 | 1629 | 1377 | | |
| | | | BEFOR | E BEGINNIN | IG OF FOUR | RTH YEAR | | | | | | |
| Number who drop out of UNM before their fourth year | 526 | 615 | 601 | 662 | 685 | 631 | 731 | 770 | NA | NA | | |
| Percentage who drop out of UNM before their fourth year | 39.17% | 41.87% | 39.67% | 40.79% | 39.73% | 37.69% | 41.28% | 43.87% | NA | NA | | |
| Number who stayed at UNM, but changed majors out of STEM before their fourth year | 374 | 409 | 389 | 403 | 416 | 414 | 425 | 385 | NA | NA | | |
| Percentage who stayed at UNM, but changed majors out of STEM before their fourth year | 27.85% | 27.84% | 25.68% | 24.83% | 24.13% | 24.73% | 24.00% | 21.94% | NA | NA | | |
| Total Number who dropped or changed major out of STEM before fourth year | 900 | 1024 | 990 | 1065 | 1101 | 1045 | 1156 | 1155 | NA | NA | | |
| Percentage who dropped or changed majors out of stem before fourth year | 67.01% | 69.71% | 65.35% | 65.62% | 63.86% | 62.43% | 65.27% | 65.81% | NA | NA | | |

PART TWO: UNDERGRADUATE STUDENTS WHO IDENTIFY AS HISPANIC AND/OR LOW INCOME

Part Two, Section One: INTEREST IN STEM

| | Table 1 | L7. First-Ye | ear STEM-I | nterested | Students, | Hispanic a | nd/or Lov | v-Income | | |
|---|---------|--------------|------------|-----------|-----------|------------|-----------|----------|---------|---------|
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| Number of first- year Hispanic and/or low- income students | 2061 | 2375 | 2238 | 2232 | 2384 | 2105 | 2314 | 2311 | 2213 | 1783 |
| Number of first- year Hispanic and/or low- income students interested in STEM | 798 | 964 | 1000 | 1052 | 1177 | 1114 | 1210 | 1202 | 1121 | 920 |
| Percentage of Hispanic and/or low-income first- year students interested in STEM | 38.72% | 40.59% | 44.68% | 47.13% | 49.37% | 52.92% | 52.29% | 52.44% | 50.66% | 51.60% |

Table 18. Total Undergraduate Interest in STEM: All Hispanic and/or Low-Income Undergraduate STEM-Interested Students (not restricted to first-year students)

| | (not restricted to first-year students) 2009-10 2010-11 2011-12 2012-13 2013-14 2014-15 2015-16 2016-17 2017-18 2017-18 | | | | | | | | | | | |
|---|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2017-18 | | |
| Number of ALL full-time Hispanic and low-income students, not just those interested in STEM | 10477 | 11654 | 12085 | 12265 | 12538 | 12155 | 11950 | 11809 | 11238 | 10186 | | |
| Number of STEM-interested full-time Hispanic and low-income students | 4830 | 5416 | 5718 | 5978 | 6212 | 6039 | 5978 | 5877 | 5528 | 5076 | | |
| Percentage of all full-time Hispanic and low-income students who are interested in STEM | 46.10% | 46.47% | 47.31% | 48.74% | 49.55% | 49.68% | 50.02% | 49.77% | 49.19% | 49.83% | | |
| Number of ALL part-time and full-time Hispanic and low-income students, not just those interested in STEM | 13282 | 14886 | 15530 | 15852 | 15972 | 15462 | 14879 | 14650 | 14230 | 12935 | | |
| Number of STEM-interested part-time and full-time Hispanic and low-income students | 6213 | 7022 | 7358 | 7703 | 7957 | 7738 | 7440 | 7224 | 6908 | 6373 | | |
| Percentage of all part-time and full-time Hispanic and low-income students who are interested in STEM | 46.78% | 47.17% | 47.38% | 48.59% | 49.82% | 50.05% | 50.00% | 49.31% | 48.55% | 49.27% | | |

Part Two, Section Two: GRADUATION IN STEM

| Table 19. | Table 19. Within Four-year STEM Graduation for First-Year Students Interested in STEM, | | | | | | | | | | |
|--|--|-------------|---------------|--------------|---------|---------|---------|--|--|--|--|
| | | Hispanic an | d/or Low-Inco | ome Students | | | | | | | |
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | | | | |
| | cohort | cohort | cohort | cohort | cohort | cohort | cohort | | | | |
| Number of first-year STEM-interested Hispanic and low- income students who graduated in STEM within four years | 72 | 90 | 112 | 150 | 205 | 222 | 272 | | | | |
| Percentage of first- year STEM-interested Hispanic and low- income students who graduated in STEM within four years | 9.02% | 9.34% | 11.20% | 14.26% | 17.42% | 19.93% | 22.48% | | | | |

| Table 20. Within Five-year STEM Graduation for First-Year Students Interested in STEM, Hispanic and/or Low-Income Students | | | | | | | | | | | |
|--|---|---------|---------|---------|---------|---------|--|--|--|--|--|
| | • | | | | 1 | Т | | | | | |
| | 2009-10 2010-11 2011-12 2012-13 2013-14 2014-15 | | | | | | | | | | |
| | cohort | cohort | cohort | cohort | cohort | cohort | | | | | |
| Number of first-year STEM- | | | | | | | | | | | |
| interested Hispanic and low- | 169 | 100 | 242 | 260 | 245 | 413 | | | | | |
| income students who graduated in | 109 | 183 | 243 | 260 | 345 | 413 | | | | | |
| STEM within five years | | | | | | | | | | | |
| Percentage of first-year STEM- | | | | | | | | | | | |
| interested Hispanic and low- | 21 100/ | 10.000/ | 24.200/ | 24.710/ | 20.210/ | 27.070/ | | | | | |
| income students who graduated in | 21.18% | 18.98% | 24.30% | 24.71% | 29.31% | 37.07% | | | | | |
| STEM within five years | | | | | | | | | | | |

| Table 21. Within Six-year STEM G | raduation for | First-Year Stu | dents Interest | ed in STEM, | | | | | | |
|---|---------------|----------------|----------------|-------------|--------|--|--|--|--|--|
| Hispanic | and/or Low-Ir | ncome Studen | ts | | | | | | | |
| 2009-10 2010-11 2011-12 2012-13 2013-14 | | | | | | | | | | |
| | cohort | cohort | cohort | cohort | cohort | | | | | |
| Number of first-year STEM-interested Hispanic | | | | | | | | | | |
| and low-income students who graduated in | 224 | 236 | 279 | 303 | 388 | | | | | |
| STEM within six years | | | | | | | | | | |
| Percentage of first-year STEM-interested | | | | | | | | | | |
| Hispanic and low-income students who | 28.07% | 24.48% | 27.90% | 28.80% | 32.97% | | | | | |
| graduated in STEM within six years | | | | | | | | | | |

Part Two, Section Three: RETENTION OF STEM STUDENTS

| | Table | 22. Secon | | ention of | | | | in STEM, | | |
|--|---------|-----------|---------|------------|----------|------------|---------|----------|---------|---------|
| | | | Hispani | c and/or L | ow-Incom | e Students | 5 | | | |
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| Number of first-year STEM-interested Hispanic and low-income students who returned for their second year | 622 | 708 | 750 | 826 | 914 | 884 | 965 | 910 | 812 | 685 |
| Percentage of first-year STEM-interested Hispanic and low-income students who returned for their second year | 77.94% | 73.44% | 75.00% | 78.52% | 77.66% | 79.35% | 79.75% | 75.71% | 72.44% | 74.46% |

| Та | ble 23. Thi | | | First-Year | | | in STEM, | | |
|---|-------------|---------|---------|----------------------|---------|---------|----------|---------|---------|
| | 2009-10 | 2010-11 | 2011-12 | or Low-In 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 |
| Number of first-year STEM-interested Hispanic and low- income students who returned for their third year | 533 | 582 | 628 | 697 | 771 | 767 | 829 | 727 | 685 |
| Percentage of first-year STEM-interested Hispanic and low-income students who returned for their third year | 66.79% | 60.37% | 62.80% | 66.25% | 65.51% | 68.85% | 68.51% | 60.48% | 61.11% |

| Table 24. Fo | Table 24. Fourth Year Retention of First-Year Students Interested in STEM, Hispanic and/or Low-Income Students | | | | | | | | | | | |
|---|--|---------|---------|---------|---------|---------|---------|---------|--|--|--|--|
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | | | | |
| Number of first-year STEM- interested Hispanic and low- income students who returned for their fourth year | 462 | 527 | 577 | 585 | 678 | 673 | 689 | 621 | | | | |
| Percentage of first-year STEM- interested Hispanic and low- income students who returned for their fourth year | 57.89% | 54.67% | 57.70% | 55.61% | 57.60% | 60.41% | 56.94% | 51.66% | | | | |

Part Two, Section Four: STEM DEGREE PERSISTENCE

| Та | ble 25. Fir | | | nts Droppii , Hispanic | - | | | ng Out of | STEM, | |
|---|-------------------|-------------------|-------------------|---------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 2009-10 cohort | 2010-11 cohort | 2011-12 cohort | 2012-13 cohort | 2013-14 cohort | 2014-15 cohort | 2015-16 cohort | 2016-17 cohort | 2017-18 cohort | 2018-19 cohort |
| Number of first-year Hispanic and low-income students interested in STEM | 798 | 964 | 1000 | 1052 | 1177 | 1114 | 1210 | 1202 | 1121 | 920 |
| | | | BEFOR | E BEGINNI | NG OF SEC | OND YEAR | } | | | |
| Number who drop out of UNM before second year | 176 | 256 | 250 | 226 | 263 | 230 | 245 | 292 | 309 | 235 |
| Percentage who drop out of UNM before second year | 22.06% | 26.56% | 25.00% | 21.48% | 22.34% | 20.65% | 20.25% | 24.29% | 27.56% | 25.54% |
| Number who stayed at UNM, but changed majors out of STEM before second year | 81 | 110 | 90 | 98 | 110 | 124 | 110 | 87 | 89 | 53 |

| Percentage who stayed at UNM, but changed majors out of STEM before second year | 10.15% | 11.41% | 9.00% | 9.32% | 9.35% | 11.13% | 9.09% | 7.24% | 7.94% | 5.76% |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Total number who dropped or changed major before second year | 257 | 366 | 340 | 324 | 373 | 354 | 355 | 379 | 398 | 288 |
| Percent who dropped or changed major before second year | 32.21% | 37.97% | 34.00% | 30.80% | 31.69% | 31.78% | 29.34% | 31.53% | 35.50% | 31.30% |

| Tal | Table 26. First-Year STEM Students Dropping Out of UNM and/or Switching Out of STEM, | | | | | | | | | | | |
|----------------|--|---------|-------------------------|------------|------------|------------|----------|---------|---------|---------|--|--|
| | | befor | e 3 rd year, | Hispanic a | and/or Lov | v Income S | Students | | | | | |
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | | |
| | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | | |
| Number of | | | | | | | | | | | | |
| first-year | | | | | | | | | | | | |
| Hispanic and | | | | | | | | | | | | |
| low-income | 798 | 964 | 1000 | 1052 | 1177 | 1114 | 1210 | 1202 | 1121 | 920 | | |
| students | | | | | | | | | | | | |
| interested in | | | | | | | | | | | | |
| STEM | | | | | | | | | | | | |
| | | | BEFO | RE BEGINN | ING OF THI | RD YEAR | | | | | | |
| Number who | | | | | | | | | | | | |
| drop out of | 265 | 382 | 372 | 355 | 406 | 347 | 381 | 475 | 436 | NA | | |
| UNM before | 203 | 302 | 3/2 | 333 | 400 | 347 | 301 | 4/3 | 450 | IVA | | |
| third year | | | | | | | | | | | | |
| Percentage | | | | | | | | | | | | |
| who drop out | 33.21% | 39.63% | 37.20% | 33.75% | 34.49% | 31.15% | 31.49% | 39.52% | 38.89% | NA | | |
| of UNM before | 33.2170 | 33.0370 | 37.2070 | 33.7370 | 3 11 1370 | 31.1370 | 31.1370 | 33.3270 | 30.0370 | 1.7. | | |
| third year | | | | | | | | | | | | |
| Number who | | | | | | | | | | | | |
| stayed at UNM, | | | | | | | | | | | | |
| but changed | 175 | 226 | 199 | 215 | 245 | 190 | 223 | 218 | 196 | NA | | |
| majors out of | | | | | | | | | | | | |
| STEM before | | | | | | | | | | | | |
| third year | | | | | | | | | | | | |

| Percentage who stayed at UNM, but changed majors out of STEM before third year | 21.93% | 23.44% | 19.90% | 20.44% | 20.82% | 17.06% | 18.43% | 18.14% | 17.48% | NA |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| Total number who dropped or changed major before third year | 440 | 608 | 571 | 570 | 651 | 537 | 604 | 693 | 632 | NA |
| Percent who dropped or changed major before third year | 55.14% | 63.07% | 57.10% | 54.18% | 55.31% | 48.20% | 49.92% | 57.65% | 56.38% | NA |

| Tab | Table 27. First-Year STEM Students Dropping Out of UNM and/or Switching Out of STEM, before 4 th year, Hispanic and/or Low Income Students | | | | | | | | | | | | |
|--|--|---------|---------|-----------------------|-----------|---------|---------|---------|---------|---------|--|--|--|
| | 2009-10 | 2010-11 | 2011-12 | Hispanic a 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | | | |
| | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | | | |
| Number of first- year Hispanic and low-income students interested in STEM | 798 | 964 | 1000 | 1052 | 1177 | 1114 | 1210 | 1202 | 1121 | 920 | | | |
| | | | BEFOR | E BEGINNIN | G OF FOUR | TH YEAR | | | | | | | |
| Number who drop out of UNM before fourth year | 336 | 437 | 423 | 467 | 499 | 441 | 521 | 581 | NA | NA | | | |
| Percentage who drop out of UNM before fourth year | 42.11% | 45.33% | 42.30% | 44.39% | 42.40% | 39.58% | 43.06% | 48.34% | NA | NA | | | |
| Number who stayed at UNM, but changed majors out of STEM before fourth year | 209 | 271 | 250 | 272 | 289 | 227 | 298 | 268 | NA | NA | | | |
| Percentage who stayed at UNM, but changed majors out of STEM before fourth year | 26.19% | 28.11% | 25.00% | 25.86% | 24.55% | 20.38% | 24.63% | 22.30% | NA | NA | | | |
| Total number who dropped or changed major before fourth year | 545 | 708 | 673 | 739 | 788 | 739 | 819 | 849 | NA | NA | | | |
| Percent who dropped or changed major before fourth year | 68.30% | 73.44% | 67.30% | 70.25% | 66.95% | 66.33% | 67.69% | 70.6% | NA | NA | | | |

PART THREE:

UNDERGRADUATE STUDENTS WHO DO NOT IDENTIFY AS HISPANIC AND/OR LOW INCOME

Part Three, Section One: INTEREST IN STEM

| | Table 28. | First-Year | STEM-Int | erested St | udents, N | OT Hispani | ic and/or L | .ow-Incom | ie | |
|---------------|-----------|------------|----------|------------|-----------|------------|-------------|-----------|---------|---------|
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| Number of | | | | | | | | | | |
| first-year | | | | | | | | | | |
| students who | 1348 | 1210 | 1102 | 1192 | 1133 | 1027 | 1088 | 1078 | 987 | 817 |
| are NOT | 1540 | 1210 | 1102 | 1132 | 1133 | 1027 | 1000 | 1070 | 307 | 017 |
| Hispanic or | | | | | | | | | | |
| low-income | | | | | | | | | | |
| Number of | | | | | | | | | | |
| first-year | | | | | | | | | | |
| students | | | | | | | | | | |
| interested in | 545 | 505 | 515 | 571 | 547 | 560 | 561 | 553 | 508 | 445 |
| STEM who are | | | | | | | | | | |
| NOT Hispanic | | | | | | | | | | |
| or low-income | | | | | | | | | | |
| Percentage of | | | | | | | | | | |
| first-year | | | | | | | | | | |
| students | | | | | | | | | | |
| interested in | 40.43% | 41.74% | 46.73% | 47.90% | 48.28% | 54.53% | 51.56% | 51.30% | 51.47% | 54.47% |
| STEM who are | | | | | | | | | | |
| NOT Hispanic | | | | | | | | | | |
| or low-income | | | | | | | | | | |

Table 29. Total Undergraduate Interest in STEM: Undergraduate STEM-Interested Students who are NOT Hispanic and/or Low-Income

| | (not restricted to first-year students) | | | | | | | | | | | |
|---|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | | |
| Number of ALL full-time students who are NOT Hispanic or low- income, not just those interested in STEM | 6636 | 6285 | 5955 | 5780 | 5591 | 5454 | 5405 | 5388 | 5083 | 4667 | | |
| Number of STEM- interested full- time students who are NOT Hispanic or low- income | 3038 | 2923 | 2820 | 2862 | 2813 | 2800 | 2829 | 2794 | 2563 | 2415 | | |
| Percentage of all full-time students who are interested in STEM, and who are NOT Hispanic or low-income | 45.78% | 46.51% | 47.36% | 49.52% | 50.31% | 51.34% | 52.34% | 51.86% | 50.42% | 51.75% | | |
| Number of ALL part-time and full-time students who are NOT Hispanic or lowincome, not just those interested in STEM | 8295 | 7903 | 7531 | 7273 | 7052 | 6845 | 6608 | 6633 | 6273 | 5876 | | |
| Number of STEM- interested part- time and full- time students who are NOT Hispanic or low- income | 3881 | 3757 | 3617 | 3639 | 3580 | 3530 | 3460 | 3398 | 3129 | 2953 | | |
| Percentage of all part-time and full-time students who are interested in STEM, and who are NOT Hispanic or low-income | 46.79% | 47.54% | 48.03% | 50.03% | 50.77% | 51.57% | 52.36% | 51.29% | 49.88% | 50.26% | | |

Part Three, Section Two: GRADUATION IN STEM

| Table 30. | Within Four-y | ear STEM Gra | aduation for F | irst-Year Stud | lents Interest | ed in STEM, | |
|---|---------------|---------------|----------------|----------------|----------------|-------------|---------|
| | Stu | udents are NC | T Hispanic ar | nd/or Low Inc | ome | | |
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| | cohort | cohort | cohort | cohort | cohort | cohort | cohort |
| Number of first-year STEM-interested students who are NOT Hispanic or low- income, and who graduated in STEM within four years | 82 | 102 | 97 | 139 | 141 | 176 | 175 |
| Percentage of first- year STEM-interested students who are NOT Hispanic or low- income, and who graduated in STEM within four years | 15.05% | 20.20% | 18.83% | 24.34% | 25.78% | 31.43% | 31.19% |

| Table 31. Within Five | Table 31. Within Five-year STEM Graduation for First-Year Students Interested in STEM, | | | | | | | | | | | |
|--|--|--------|--------|--------|--------|--------|--|--|--|--|--|--|
| 9 | Students are NOT Hispanic and/or Low Income | | | | | | | | | | | |
| 2009-10 2010-11 2011-12 2012-13 2013-14 2014-15 | | | | | | | | | | | | |
| | cohort | cohort | cohort | cohort | cohort | cohort | | | | | | |
| Number of first-year STEM- interested students who are NOT Hispanic or low-income, and who graduated in STEM within five years | 176 | 171 | 183 | 240 | 227 | 245 | | | | | | |
| Percentage of first-year STEM- interested students who are NOT Hispanic or low-income, and who graduated in STEM within five years | 32.29% | 33.86% | 35.53% | 42.03% | 41.50% | 43.75% | | | | | | |

| Table 32. Within Six-year STEM G | Table 32. Within Six-year STEM Graduation for First-Year Students Interested in STEM, | | | | | | | | | | | |
|--|---|--------|--------|--------|--------|--|--|--|--|--|--|--|
| Students are | Students are NOT Hispanic and/or Low Income | | | | | | | | | | | |
| 2009-10 2010-11 2011-12 2012-13 2012-13 | | | | | | | | | | | | |
| | cohort | cohort | cohort | cohort | cohort | | | | | | | |
| Number of first-year STEM-interested students who are NOT Hispanic or low-income, and who graduated in STEM within six years | 199 | 193 | 207 | 264 | 244 | | | | | | | |
| Percentage of first-year STEM-interested students who are NOT Hispanic or low-income, and who graduated in STEM within six years | 36.51% | 38.22% | 40.19% | 46.23% | 44.61% | | | | | | | |

Part Three, Section Three: RETENTION OF STEM STUDENTS

| | Table | 33. Secon | d Year Ret | ention of I | First-Year | Students I | nterested | in STEM, | | |
|---|---------|-----------|------------|-------------|------------|------------|-----------|----------|---------|---------|
| | | Stud | ents who | are NOT H | ispanic an | d/or Low- | Income | | | |
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| Number of first- year STEM- interested students who are NOT Hispanic or low-income, and who returned for their second year | 433 | 406 | 417 | 468 | 448 | 458 | 471 | 471 | 399 | 364 |
| Percentage of first-year STEM-interested students who are NOT Hispanic or low-income, and who returned for their second year | 79.45% | 80.40% | 80.97% | 81.96% | 81.90% | 81.79% | 83.95% | 85.17% | 78.54% | 81.80% |

| Tak | ole 34. Thir | d Year Ret | tention of | First-Year S | Students II | nterested i | n STEM, | | |
|--|--------------|------------|------------|--------------|-------------|-------------|---------|---------|---------|
| | Stu | dents who | are NOT I | Hispanic aı | nd/or Low | -Income | | | |
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 |
| Number of first-year STEM-interested students who are NOT Hispanic or low-income, and who returned for their third year | 383 | 352 | 373 | 424 | 383 | 408 | 413 | 405 | 345 |
| Percentage of first-year STEM-interested students who are NOT Hispanic or low-income, and who returned for their third year | 70.28% | 69.70% | 72.43% | 74.26% | 70.02% | 72.86% | 73.62% | 73.24% | 67.91% |

| Table 35. Fourth Year Retention of First-Year Students Interested in STEM, Students who are NOT Hispanic and/or Low-Income | | | | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| 2009-10 2010-11 2011-12 2012-13 2013-14 2014-15 2015-16 2016-17 | | | | | | | | | | |
| Number of first-year STEM- interested students who are NOT Hispanic or low-income, and who returned for their fourth year | 355 | 327 | 337 | 376 | 361 | 370 | 351 | 364 | | |
| Percentage of first-year STEM- interested students who are NOT Hispanic or low-income, and who returned for their fourth year | 65.14% | 64.75% | 65.44% | 65.85% | 66.00% | 66.07% | 62.57% | 65.82% | | |

Part Three, Section Four: STEM DEGREE PERSISTENCE

| Table 36. First-Year STEM Students Dropping Out of UNM and/or Switching Out of STEM, | | | | | | | | | | |
|--|---------|---------|---------|------------|------------|---------|---------|---------|---------|---------|
| before 2 nd year, Students who are NOT Hispanic and/or Low-Income | | | | | | | | | | |
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| Number of first- | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort |
| year students interested in STEM who are NOT Hispanic or low-income | 545 | 505 | 515 | 571 | 547 | 560 | 561 | 553 | 508 | 445 |
| | | | BEFOR | E BEGINNIN | IG OF SECO | ND YEAR | | | | |
| Number who drop out of UNM before second year | 112 | 99 | 98 | 103 | 99 | 102 | 90 | 82 | 109 | 81 |
| Percentage who drop out of UNM before second year | 20.55% | 19.60% | 19.03% | 18.04% | 18.10% | 18.21% | 16.04% | 14.83% | 21.46% | 18.20% |
| Number who stayed at UNM, but changed majors out of STEM before second year | 62 | 45 | 47 | 46 | 49 | 48 | 43 | 54 | 34 | 23 |
| Percentage who stayed at UNM, but changed majors out of STEM before second year | 11.38% | 8.91% | 9.13% | 8.06% | 8.96% | 8.57% | 7.67% | 9.76% | 6.69% | 5.17% |
| Total number who dropped or changed major before second year | 174 | 144 | 145 | 149 | 148 | 150 | 133 | 136 | 143 | 104 |
| Percent who dropped or changed major before second year | 31.93% | 28.51% | 28.16% | 26.09% | 27.06% | 26.79% | 24.48% | 24.59% | 28.15% | 23.37% |

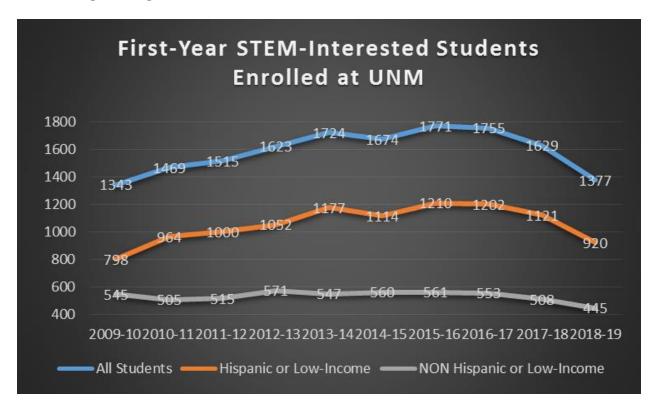
| Table 37. First-Year STEM Students Dropping Out of UNM and/or Switching Out of STEM, | | | | | | | | | | |
|---|---------|---------|---------|------------|------------|---------|---------|---------|---------|---------|
| before 3 rd year, Students who are NOT Hispanic and/or Low-Income | | | | | | | | | | |
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort |
| Number of first- year students interested in STEM who are NOT Hispanic or low-income | 545 | 505 | 515 | 571 | 547 | 560 | 561 | 553 | 508 | 445 |
| | | | BEFO | RE BEGINNI | NG OF THIE | RD YEAR | | | | |
| Number who drop out of UNM before third year | 162 | 153 | 142 | 147 | 164 | 152 | 148 | 148 | 163 | NA |
| Percentage who drop out of UNM before third year | 29.72% | 30.30% | 27.57% | 25.74% | 29.98% | 27.14% | 26.38% | 26.76% | 32.09% | NA |
| Number who stayed at UNM, but changed majors out of STEM before third year | 131 | 108 | 99 | 100 | 102 | 82 | 95 | 107 | 88 | NA |
| Percentage who stayed at UNM, but changed majors out of STEM before third year | 24.04% | 21.39% | 19.22% | 17.51% | 18.65% | 18.65% | 16.93% | 19.35% | 17.32% | NA |
| Total number who dropped or changed major before third year | 293 | 261 | 241 | 247 | 266 | 234 | 243 | 255 | 251 | NA |
| Percent who dropped or changed major before third year | 53.76% | 51.68% | 46.80% | 43.26% | 48.63% | 41.79% | 43.32% | 46.11% | 49.41% | NA |

| Table 38. First-Year STEM Students Dropping Out of UNM and/or Switching Out of STEM, | | | | | | | | | | |
|---|---------|---------|---------|------------|------------|---------|---------|---------|---------|---------|
| before 4th year, Students who are NOT Hispanic and/or Low-Income | | | | | | | | | | |
| | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort | cohort |
| Number of first- year students interested in STEM who are NOT Hispanic or low-income | 545 | 505 | 515 | 571 | 547 | 560 | 561 | 553 | 508 | 445 |
| | | | BEFOR | E BEGINNIN | IG OF FOUR | TH YEAR | | | | |
| Number who drop out of UNM before fourth year | 190 | 178 | 178 | 195 | 199 | 190 | 210 | 189 | NA | NA |
| Percentage who drop out of UNM before fourth year | 34.86% | 35.25% | 34.56% | 34.15% | 35.54% | 33.93% | 37.43% | 34.18% | NA | NA |
| Number who stayed at UNM, but changed majors out of STEM before fourth year | 160 | 134 | 138 | 130 | 119 | 107 | 127 | 132 | NA | NA |
| Percentage who stayed at UNM, but changed majors out of STEM before fourth year | 29.36% | 26.53% | 26.80% | 22.77% | 21.25% | 19.11% | 22.64% | 23.87% | NA | NA |
| Total number who dropped or changed major before fourth year | 350 | 312 | 316 | 325 | 318 | 297 | 337 | 321 | NA | NA |
| Percent who dropped or changed major before fourth year | 64.22% | 61.78% | 61.36% | 56.92% | 56.79% | 53.05% | 60.07% | 58.05% | NA | NA |

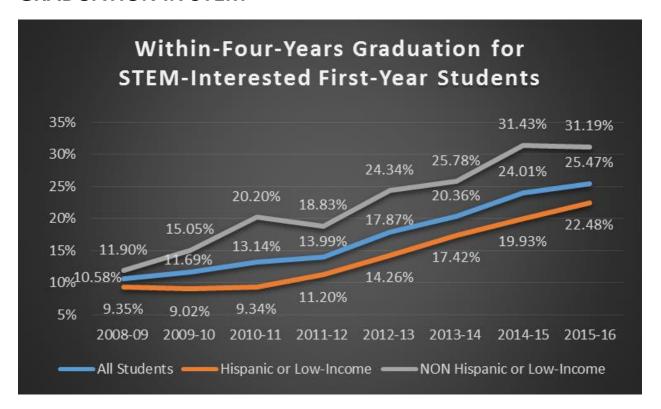
PART FOUR: Achievement Gap Charts

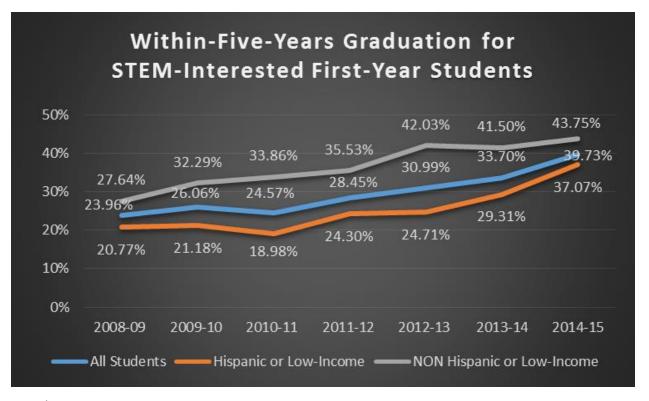
The following charts were created using data from the charts in Parts One, Two and Three. They illustrate selected longitudinal trends related to gaps in achievement between the three cohorts of students.

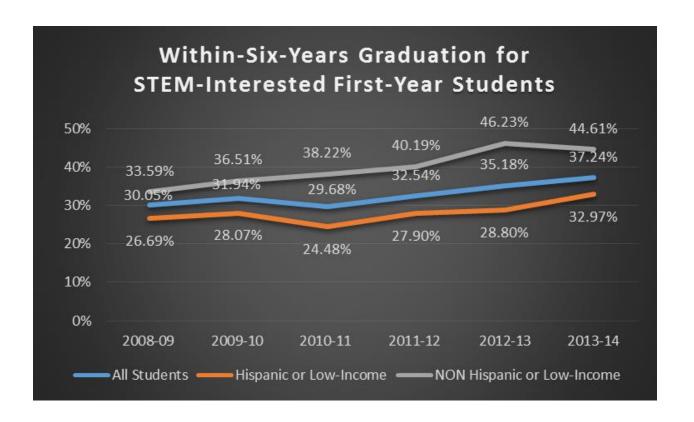
Part Four, Section One: INTEREST IN STEM



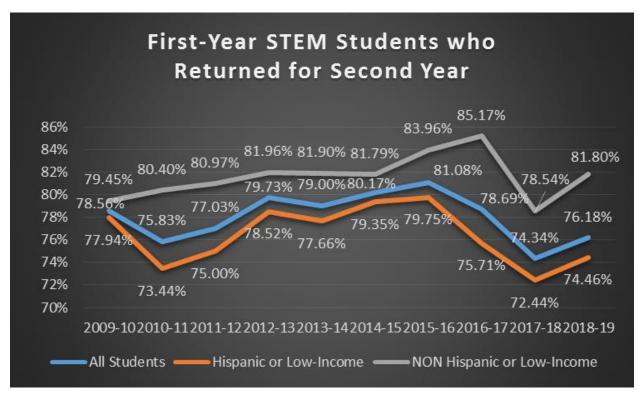
Part Four, Section Two: GRADUATION IN STEM

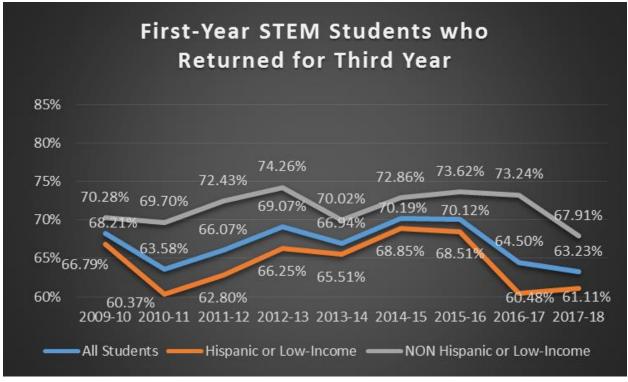


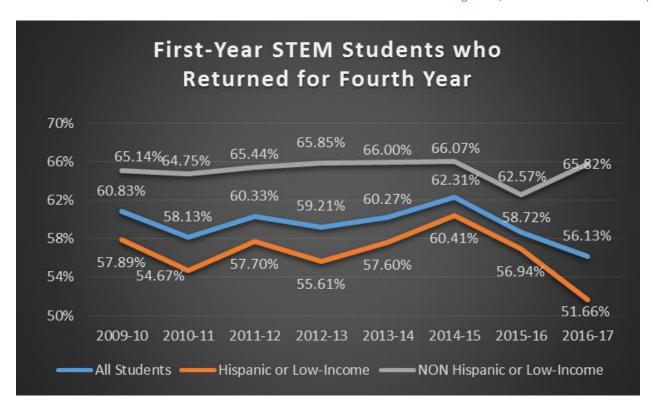




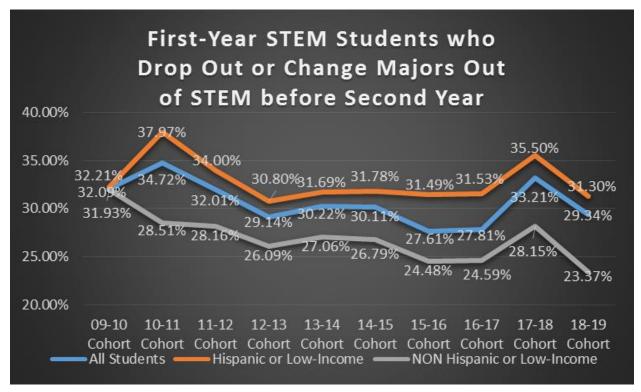
Part Four, Section Three: RETENTION OF STEM STUDENTS

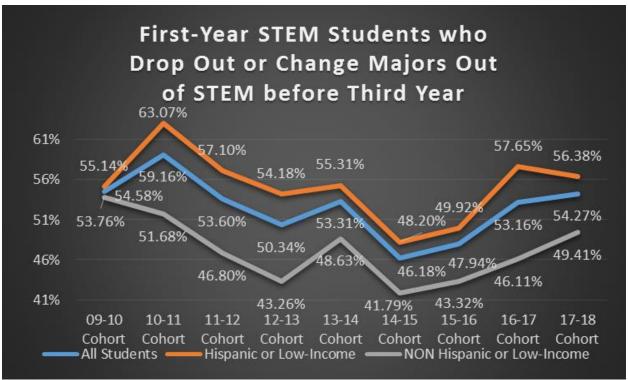


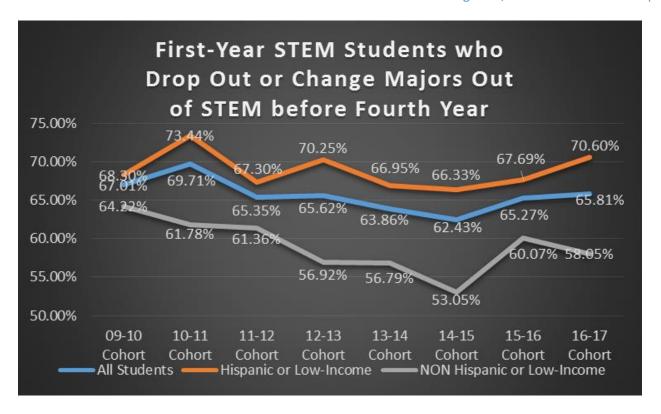




Part Four, Section Four: STEM DEGREE PERSISTENCE







APPENDIX A: STEM Degree Majors

| Major Description | Major Code |
|--------------------------|------------|
| Anthropology | 005 |
| Anthropology | ANTH |
| Architecture | ARCH |
| Architecture | 006 |
| Biochemistry | 249 |
| Biochemistry | BIOC |
| Biology | 012 |
| Biology | BIOL |
| Chemical Engineering | 015 |
| Chemical Engineering | CHE |
| Chemistry | 016 |
| Chemistry | CHEM |
| Civil Engineering | 017 |
| Civil Engineering | CE |
| Computer Engineering | СРЕ |
| Computer Engineering | 171 |
| Computer Science | 168 |
| Computer Science | CS |
| Computer Science | 109 |
| Computer Science | ACS |
| Construction Engineering | 262 |
| Construction Engineering | CONE |
| Construction Management | 263 |
| Construction Management | CONM |
| Construction Management | 474 |
| Construction Management | CMGT |
| Dental Hygiene | DEHY |

| Dental Hygiene 022 Dental Hygiene 023 Earth & Planetary Sciences 340 Earth & Planetary Sciences EPS Economics 027 Economics ECON Electrical Engineering EE Electrical Engineering 173 Emergency Medical Services 379 Emergency Medical Services EMS Environmental Science 438 Environmental Science ENSC General Engineering GENG Geography 046 Geography GEOG Health, Medicine & Human Values HMHV Health, Medicine & Human Values 1NGV Management Info Systems (Con) 110 Mathematics 064 Mathematics MATH Mechanical Engineering ME Mechanical Engineering 065 Medical Laboratory Sciences MEDL Nuclear Engineering 076 | Dental Hygiene | DHYG |
|--|---------------------------------|------|
| Earth & Planetary Sciences EPS Economics 027 Economics ECON Electrical Engineering EE Electrical Engineering EMS Emergency Medical Services EMS Environmental Science ENSC General Engineering GENSC General Engineering GENSC General Engineering TATA Emergency Medical Services EMS Environmental Science ENSC General Engineering TATA HATA HATA HATA HATA HATA Medicine & Human Values HimhV Health, Medicine & Human Values HimhV Health | Dental Hygiene | 022 |
| Earth & Planetary Sciences EPS Economics 027 Economics ECON Electrical Engineering EE Electrical Engineering 173 Emergency Medical Services 379 Emergency Medical Services EMS Environmental Science 438 Environmental Science ENSC General Engineering GENG Geography O46 Geography O46 Geography GEOG Health, Medicine & Human Values HMHV Health, Medicine & Human Values INGV Management Info Systems (Con) 110 Mathematics MATH Mechanical Engineering ME Mechanical Engineering ME Mechanical Engineering ME Medical Laboratory Sciences MEDI | Dental Hygiene | 023 |
| Economics CON Economics ECON Electrical Engineering EE Electrical Engineering I73 Emergency Medical Services EMS Environmental Science 438 Environmental Science ENSC General Engineering GENG Geography O46 Geography GEOG Health, Medicine & Human Values HMHV Health, Medicine & Human Values INGV Management Info Systems (Con) 110 Mathematics MEC Mathematics MEC Mechanical Engineering ME Mechanical Engineering ME Mechanical Engineering ME Medical Laboratory Sciences MEDI | Earth & Planetary Sciences | 340 |
| Economics ECON Electrical Engineering EE Electrical Engineering 173 Emergency Medical Services 379 Emergency Medical Services EMS Environmental Science 438 Environmental Science ENSC General Engineering GENG Geography O46 Geography O46 Geography GEOG Health, Medicine & Human Values HMHV Health, Medicine & Human Values HMHV Management Info Systems (Con) 110 Mathematics 064 Mathematics MATH Mechanical Engineering 065 Medical Laboratory Sciences MEDI MEDI MEDI MEDI MEDI | Earth & Planetary Sciences | EPS |
| Electrical Engineering EE Electrical Engineering 173 Emergency Medical Services 379 Emergency Medical Services EMS Environmental Science 438 Environmental Science ENSC General Engineering GENG Geography O46 Geography O46 Geography GEOG Health, Medicine & Human Values HMHV Health, Medicine & Human Values INGV Management Info Systems (Con) 110 Mathematics 064 Mathematics MATH Mechanical Engineering 065 Medical Laboratory Sciences MEDI | Economics | 027 |
| Electrical Engineering 173 Emergency Medical Services 379 Emergency Medical Services EMS Environmental Science 438 Environmental Science ENSC General Engineering 371 General Engineering GENG Geography 046 Geography GEOG Health, Medicine & Human Values HIMHV Health, Medicine & Human Values 1NGV Management Info Systems (Con) 110 Mathematics 064 Mathematics MATH Mechanical Engineering 065 Medical Laboratory Sciences MEDL | Economics | ECON |
| Emergency Medical Services EMS Emergency Medical Services EMS Environmental Science 438 Environmental Science ENSC General Engineering 371 General Engineering GENG Geography 046 Geography 046 Geography GEOG Health, Medicine & Human Values HmHV Health, Medicine & Human Values INGV Management Info Systems (Con) 110 Mathematics MATH Mechanical Engineering ME Mechanical Engineering 065 Medical Laboratory Sciences 353 Medical Laboratory Sciences MEDL | Electrical Engineering | EE |
| Emergency Medical Services Environmental Science 438 Environmental Science ENSC General Engineering 371 General Engineering Geography 046 Geography Geography Geography Health, Medicine & Human Values Health, Medicine & Human Values Integrative Studies INGV Management Info Systems (Con) 110 Mathematics MATH Mechanical Engineering ME Mechanical Engineering Mechanical Engineering Medical Laboratory Sciences Medical Laboratory Sciences MEDL | Electrical Engineering | 173 |
| Environmental Science 438 Environmental Science ENSC General Engineering 371 General Engineering GENG Geography 046 Geography GEOG Health, Medicine & Human Values HMHV Health, Medicine & Human Values INGV Management Info Systems (Con) 110 Mathematics 064 Mathematics MATH Mechanical Engineering ME Mechanical Engineering 065 Medical Laboratory Sciences 353 Medical Laboratory Sciences MEDL | Emergency Medical Services | 379 |
| Environmental Science ENSC General Engineering 371 General Engineering GENG Geography 046 Geography GEOG Health, Medicine & Human Values HMHV Health, Medicine & Human Values INGV Management Info Systems (Con) 110 Mathematics 064 Mathematics MATH Mechanical Engineering ME Mechanical Engineering ME Medical Laboratory Sciences 353 Medical Laboratory Sciences MEDL | Emergency Medical Services | EMS |
| General Engineering 371 General Engineering GENG Geography 046 Geography GEOG Health, Medicine & Human Values HMHV Health, Medicine & Human Values INGV Management Info Systems (Con) 110 Mathematics 064 Mathematics MATH Mechanical Engineering ME Mechanical Engineering 065 Medical Laboratory Sciences MEDL | Environmental Science | 438 |
| General Engineering GENG Geography 046 Geography GEOG Health, Medicine & Human Values HMHV Health, Medicine & Human Values INGV Management Info Systems (Con) 110 Mathematics 064 Mathematics MATH Mechanical Engineering ME Mechanical Engineering 065 Medical Laboratory Sciences MEDL | Environmental Science | ENSC |
| Geography 046 Geography GEOG Health, Medicine & Human Values HMHV Health, Medicine & Human Values 481 Integrative Studies INGV Management Info Systems (Con) 110 Mathematics 064 Mathematics MATH Mechanical Engineering ME Mechanical Engineering 065 Medical Laboratory Sciences 353 Medical Laboratory Sciences MEDL | General Engineering | 371 |
| Geography GEOG Health, Medicine & Human Values Health, Medicine & Human Values Health, Medicine & Human Values Integrative Studies INGV Management Info Systems (Con) 110 Mathematics 064 Mathematics MATH Mechanical Engineering ME Mechanical Engineering 065 Medical Laboratory Sciences MEDL | General Engineering | GENG |
| Health, Medicine & Human Values Health, Medicine & Human Values 481 Integrative Studies INGV Management Info Systems (Con) 110 Mathematics 064 Mathematics MATH Mechanical Engineering ME Mechanical Engineering 065 Medical Laboratory Sciences MEDL | Geography | 046 |
| Health, Medicine & Human Values Integrative Studies INGV Management Info Systems (Con) Mathematics MATH Mechanical Engineering Mechanical Engineering Mechanical Laboratory Sciences Medical Laboratory Sciences MEDL | Geography | GEOG |
| Integrative Studies INGV Management Info Systems (Con) 110 Mathematics 064 Mathematics MATH Mechanical Engineering ME Mechanical Engineering 065 Medical Laboratory Sciences 353 Medical Laboratory Sciences MEDL | Health, Medicine & Human Values | HMHV |
| Management Info Systems (Con) Mathematics MATH Mechanical Engineering Mechanical Engineering Mechanical Engineering Mechanical Laboratory Sciences Medical Laboratory Sciences MEDL | Health, Medicine & Human Values | 481 |
| Mathematics064MathematicsMATHMechanical EngineeringMEMechanical Engineering065Medical Laboratory Sciences353Medical Laboratory SciencesMEDL | Integrative Studies | INGV |
| MathematicsMATHMechanical EngineeringMEMechanical Engineering065Medical Laboratory Sciences353Medical Laboratory SciencesMEDL | Management Info Systems (Con) | 110 |
| Mechanical EngineeringMEMechanical Engineering065Medical Laboratory Sciences353Medical Laboratory SciencesMEDL | Mathematics | 064 |
| Mechanical Engineering065Medical Laboratory Sciences353Medical Laboratory SciencesMEDL | Mathematics | MATH |
| Medical Laboratory Sciences 353 Medical Laboratory Sciences MEDL | Mechanical Engineering | ME |
| Medical Laboratory Sciences MEDL | Mechanical Engineering | 065 |
| · · · · · · · · · · · · · · · · · · · | Medical Laboratory Sciences | 353 |
| Nuclear Engineering 076 | Medical Laboratory Sciences | MEDL |
| | Nuclear Engineering | 076 |

| Nuclear Engineering | NE |
|--------------------------------|------|
| Nursing | 456 |
| Nursing | NURS |
| Nursing | 077 |
| Nursing | NUR |
| Nutrition/Dietetics | 024 |
| Nutrition/Dietetics | NDIT |
| Physics | PHYC |
| Physics | 081 |
| Physics & Astrophysics | 405 |
| Physics & Astrophysics | PAP |
| Pre Anthropology | FANT |
| Pre Biochemistry | FBIC |
| Pre Biology | FBIO |
| Pre Chemical Engineering | FCH |
| Pre Chemistry | FCHM |
| Pre Civil Engineering | FCE |
| Pre Computer Engineering | FCP |
| Pre Computer Science | FCS |
| Pre Earth & Planetary Sciences | FEPS |
| Pre Economics | FECO |
| Pre Electrical Engineering | FEE |
| Pre Environmental Science | FESC |