
University of North Dakota

NSSE 2019 Major Field Report, Part II

Comparisons to Other Institutions

Aero and Engineering

*Comparing your students majoring in the fields shown below to those
in the same fields at your comparison group institutions*

The Major Field Report group 'Aero and Engineering' includes the following majors: Aero-, astronautical engineering; Astronomy; Atmospheric science (including meteorology); Bioengineering; Biomedical engineering; Chemical engineering; Civil engineering; Computer engineering and technology; Earth science (including geology); Electrical or electronic engineering; Engineering (general); Industrial engineering; Materials engineering; Mechanical engineering; Other engineering; Petroleum engineering; Software engineering.

Note:

The Major Field Report was formatted for printing. When viewing on screen in Excel, some content may appear truncated or oddly formatted. This is normal. Increasing the zoom level or viewing the report in Print Preview will improve on-screen display.

About Your Major Field Report, Part II

NSSE data serve to identify institutional strengths and weaknesses in reference to selected comparison institutions, yet institution-level comparisons may not capture important variation in student engagement that can be found within key subpopulations such as major. This report displays selected results for students at your institution and at your selected comparison institutions in the major category: Aero and Engineering.

NSSE results included in MFR, Part II

- Engagement Indicators
- High-Impact Practices
- Frequencies and Statistical Comparisons
- Respondent Profile

Related-Major Groups

Self-reported first and second (if applicable) majors were identified from the survey. Your institution had the option to customize how these majors were grouped, using up to ten related-major groups. Institutions choosing not to customize their major categories receive NSSE's ten default groups. The majors used in this report are listed on the cover page of this report.

Sample

This report is based on information from all randomly selected or census-administered students in the indicated group of majors for both your institution and your comparison institutions. Targeted and locally administered oversamples and other non-randomly selected students are not included. Report Sample (if applicable) respondents are also excluded.

Class

Results are presented separately by institution-reported class level. Keep in mind that majors are student-reported. First-year students may report *intended* majors that have not yet been *declared*. Also, much of the first-year experience may take place outside of the major field. For these reasons, first-year results should be interpreted with caution.

Technical Requirements

Frequencies will be reported for related-major groups that have at least 5 respondents, but NSSE requires a group to have at least 20 respondents for statistical comparisons (e.g., means and t-tests). Comparison groups must contain at least 20 respondents in the major category, or they remain blank. Although 20 is a minimum requirement for all other statistics (Engagement Indicators, means, etc.), keep in mind that any statistical result requires a sufficient number of respondents per group to produce a reliable estimate. Due to the disaggregation of results by student-reported major, *Major Field Report* results are unweighted.

Report Sections (Those marked with an asterisk are included if at least one related-major group includes 20 or more respondents.)

| | |
|--|--|
| Engagement Indicators* | Results on NSSE's ten Engagement Indicators (EIs) organized into four themes. See your <i>Engagement Indicators</i> report for more details. |
| High-Impact Practices* | Results on student participation in six High-Impact Practices (HIPs). See your <i>High-Impact Practices</i> report for more details. |
| Frequencies and Statistical Comparisons* | Response frequencies and statistical comparisons (including tests of significance and effect sizes) for all survey items except the demographics for your institution and your three core comparison groups. |
| Respondent Profile | Response frequencies for all demographic questions for your institution and your three core comparison groups. |

Engagement Indicators: Overview

Engagement Indicators are summary measures based on sets of NSSE questions examining key dimensions of student engagement. The ten indicators are organized within four themes: Academic Challenge, Learning with Peers, Experiences with Faculty, and Campus Environment. The tables below compare average scores^a for your students in this related-major category with students in your comparison groups within the same category.

Use the following key:

- ▲ **Your students' average** was significantly higher ($p < .05$) with an effect size at least .3 in magnitude.
- ▲ **Your students' average** was significantly higher ($p < .05$) with an effect size less than .3 in magnitude.
- No significant difference.
- ▼ **Your students' average** was significantly lower ($p < .05$) with an effect size less than .3 in magnitude.
- ▼ **Your students' average** was significantly lower ($p < .05$) with an effect size at least .3 in magnitude.

| Theme | Engagement Indicator | First-Year Students in Aero and Engineering | | | Seniors in Aero and Engineering | | |
|--------------------------|--|---|--|--|---------------------------------|----------------------------|----------------------------|
| | | Your first-year students compared with | Your first-year students compared with | Your first-year students compared with | Your seniors compared with | Your seniors compared with | Your seniors compared with |
| | | Plains Public | Carnegie Class | One UND | Plains Public | Carnegie Class | One UND |
| Academic Challenge | Higher-Order Learning | -- | -- | -- | -- | -- | -- |
| | Reflective & Integrative Learning | -- | -- | -- | -- | -- | -- |
| | Learning Strategies | ▼ | ▼ | -- | -- | -- | -- |
| | Quantitative Reasoning | -- | -- | -- | -- | -- | -- |
| Learning with Peers | Collaborative Learning | -- | -- | -- | ▼ | ▼ | ▼ |
| | Discussions with Diverse Others | -- | -- | ▼ | ▼ | ▼ | ▼ |
| Experiences with Faculty | Student-Faculty Interaction | -- | -- | -- | ▼ | -- | ▼ |
| | Effective Teaching Practices | ▼ | ▼ | ▼ | -- | -- | -- |
| Campus Environment | Quality of Interactions | -- | -- | -- | -- | -- | -- |
| | Supportive Environment | ▼ | ▼ | ▼ | -- | -- | -- |

First-year students^a in Aero and Engineering

| | Mean statistics | | | Percentile ^d scores | | | | | Comparison results | | | |
|--|-----------------|-----------------|------------------|--------------------------------|------|------|------|------|------------------------------|------------|-------------------|--------------------------|
| | Mean | SD ^b | SEM ^c | 5th | 25th | 50th | 75th | 95th | Deg. of freedom ^e | Mean diff. | Sig. ^f | Effect size ^g |
| Academic Challenge | | | | | | | | | | | | |
| Higher-Order Learning | | | | | | | | | | | | |
| UND (N = 58) | 35.3 | 10.1 | 1.33 | 20 | 30 | 35 | 40 | 55 | | | | |
| Plains Public | 37.0 | 12.5 | .42 | 20 | 30 | 40 | 45 | 60 | 919 | -1.7 | | -.139 |
| Carnegie Class | 38.2 | 12.1 | .20 | 20 | 30 | 40 | 45 | 60 | 3,868 | -2.9 | | -.243 |
| One UND | 36.5 | 11.8 | .89 | 20 | 30 | 35 | 45 | 60 | 234 | -1.3 | | -.112 |
| Reflective & Integrative Learning | | | | | | | | | | | | |
| UND (N = 59) | 30.3 | 8.9 | 1.16 | 17 | 23 | 31 | 37 | 46 | | | | |
| Plains Public | 33.1 | 11.6 | .39 | 14 | 26 | 31 | 40 | 54 | 72 | -2.8 | * | -.248 |
| Carnegie Class | 33.2 | 11.1 | .18 | 17 | 26 | 31 | 40 | 54 | 3,903 | -2.9 | * | -.263 |
| One UND | 31.4 | 12.0 | .90 | 11 | 23 | 31 | 40 | 54 | 133 | -1.1 | | -.100 |
| Learning Strategies | | | | | | | | | | | | |
| UND (N = 59) | 30.5 | 13.9 | 1.80 | 7 | 20 | 33 | 40 | 53 | | | | |
| Plains Public | 35.4 | 13.5 | .46 | 13 | 27 | 33 | 47 | 60 | 919 | -4.9 | ** | -.364 |
| Carnegie Class | 35.8 | 13.3 | .22 | 13 | 27 | 33 | 47 | 60 | 3,850 | -5.3 | ** | -.394 |
| One UND | 33.4 | 12.9 | .97 | 13 | 27 | 33 | 40 | 60 | 233 | -2.9 | | -.218 |
| Quantitative Reasoning | | | | | | | | | | | | |
| UND (N = 59) | 29.8 | 11.0 | 1.44 | 7 | 20 | 27 | 40 | 53 | | | | |
| Plains Public | 31.8 | 13.8 | .47 | 7 | 20 | 33 | 40 | 60 | 71 | -2.0 | | -.148 |
| Carnegie Class | 31.4 | 14.3 | .23 | 7 | 20 | 33 | 40 | 60 | 61 | -1.5 | | -.109 |
| One UND | 29.5 | 14.1 | 1.06 | 7 | 20 | 33 | 40 | 60 | 127 | .3 | | .021 |
| Learning with Peers | | | | | | | | | | | | |
| Collaborative Learning | | | | | | | | | | | | |
| UND (N = 58) | 36.6 | 13.2 | 1.74 | 15 | 30 | 38 | 45 | 60 | | | | |
| Plains Public | 37.5 | 13.8 | .47 | 15 | 30 | 40 | 50 | 60 | 921 | -.9 | | -.063 |
| Carnegie Class | 37.8 | 13.6 | .22 | 15 | 30 | 40 | 50 | 60 | 3,897 | -1.2 | | -.087 |
| One UND | 37.2 | 13.1 | .98 | 15 | 25 | 40 | 45 | 60 | 233 | -.5 | | -.041 |
| Discussions with Diverse Others | | | | | | | | | | | | |
| UND (N = 58) | 35.9 | 13.6 | 1.79 | 20 | 25 | 35 | 40 | 60 | | | | |
| Plains Public | 39.1 | 14.8 | .50 | 15 | 30 | 40 | 50 | 60 | 923 | -3.2 | | -.215 |
| Carnegie Class | 39.4 | 14.8 | .24 | 15 | 30 | 40 | 50 | 60 | 3,859 | -3.5 | | -.235 |
| One UND | 40.4 | 14.2 | 1.07 | 20 | 30 | 40 | 55 | 60 | 233 | -4.5 | * | -.318 |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Engagement Indicators: Aero and Engineering

University of North Dakota

First-year students^a in Aero and Engineering

| | Mean statistics | | | Percentile ^d scores | | | | | Comparison results | | | |
|-------------------------------------|-----------------|-----------------|------------------|--------------------------------|------|------|------|------|------------------------------|------------|-------------------|--------------------------|
| | Mean | SD ^b | SEM ^c | 5th | 25th | 50th | 75th | 95th | Deg. of freedom ^e | Mean diff. | Sig. ^f | Effect size ^g |
| Experiences with Faculty | | | | | | | | | | | | |
| Student-Faculty Interaction | | | | | | | | | | | | |
| UND (N = 59) | 19.3 | 11.7 | 1.52 | 5 | 10 | 15 | 25 | 40 | | | | |
| Plains Public | 21.3 | 14.0 | .48 | 0 | 10 | 20 | 30 | 45 | 918 | -2.0 | | -.143 |
| Carnegie Class | 19.0 | 13.7 | .22 | 0 | 10 | 15 | 25 | 45 | 3,877 | .3 | | .024 |
| One UND | 19.9 | 13.1 | .98 | 0 | 10 | 20 | 25 | 45 | 234 | -.5 | | -.042 |
| Effective Teaching Practices | | | | | | | | | | | | |
| UND (N = 59) | 31.4 | 10.0 | 1.30 | 16 | 24 | 32 | 40 | 52 | | | | |
| Plains Public | 37.0 | 11.9 | .40 | 16 | 28 | 36 | 44 | 60 | 924 | -5.6 | *** | -.479 |
| Carnegie Class | 36.7 | 12.4 | .20 | 16 | 28 | 36 | 44 | 60 | 61 | -5.3 | *** | -.434 |
| One UND | 36.4 | 11.8 | .89 | 16 | 28 | 36 | 44 | 56 | 234 | -5.0 | ** | -.440 |
| Campus Environment | | | | | | | | | | | | |
| Quality of Interactions | | | | | | | | | | | | |
| UND (N = 55) | 40.8 | 9.4 | 1.26 | 24 | 34 | 42 | 48 | 56 | | | | |
| Plains Public | 42.8 | 11.2 | .39 | 23 | 36 | 44 | 50 | 60 | 896 | -2.1 | | -.186 |
| Carnegie Class | 42.4 | 11.3 | .19 | 22 | 36 | 44 | 50 | 60 | 3,693 | -1.6 | | -.141 |
| One UND | 43.3 | 10.2 | .78 | 26 | 36 | 45 | 50 | 60 | 223 | -2.5 | | -.251 |
| Supportive Environment | | | | | | | | | | | | |
| UND (N = 59) | 30.1 | 10.1 | 1.31 | 13 | 23 | 30 | 38 | 49 | | | | |
| Plains Public | 35.8 | 11.7 | .40 | 18 | 28 | 35 | 43 | 58 | 924 | -5.8 | *** | -.496 |
| Carnegie Class | 35.2 | 12.7 | .21 | 15 | 28 | 35 | 43 | 60 | 61 | -5.1 | *** | -.407 |
| One UND | 37.0 | 12.5 | .95 | 15 | 30 | 38 | 45 | 60 | 123 | -6.9 | *** | -.581 |

Seniors^a in Aero and Engineering

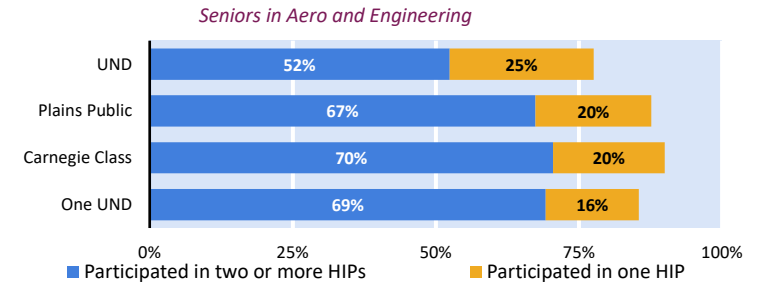
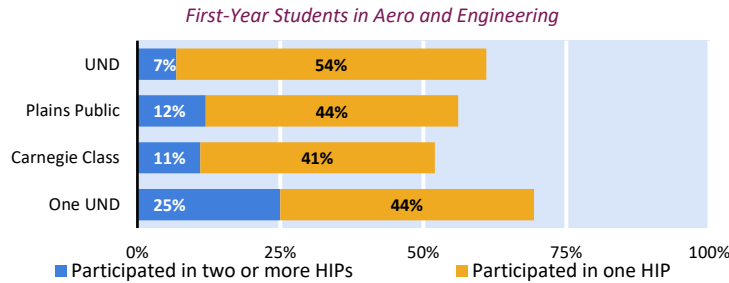
| | Mean statistics | | | Percentile ^d scores | | | | | Comparison results | | | |
|--|-----------------|-----------------|------------------|--------------------------------|------|------|------|------|------------------------------|------------|-------------------|--------------------------|
| | Mean | SD ^b | SEM ^c | 5th | 25th | 50th | 75th | 95th | Deg. of freedom ^e | Mean diff. | Sig. ^f | Effect size ^g |
| Academic Challenge | | | | | | | | | | | | |
| Higher-Order Learning | | | | | | | | | | | | |
| UND (N = 148) | 37.2 | 13.1 | 1.08 | 15 | 30 | 40 | 45 | 60 | | | | |
| Plains Public | 36.9 | 13.0 | .36 | 15 | 30 | 40 | 45 | 60 | 1,472 | .3 | | .019 |
| Carnegie Class | 37.8 | 13.0 | .19 | 15 | 30 | 40 | 45 | 60 | 4,607 | -.6 | | -.047 |
| One UND | 36.6 | 11.9 | .70 | 15 | 30 | 40 | 45 | 55 | 434 | .6 | | .049 |
| Reflective & Integrative Learning | | | | | | | | | | | | |
| UND (N = 148) | 30.3 | 11.8 | .97 | 11 | 23 | 29 | 37 | 51 | | | | |
| Plains Public | 31.7 | 11.4 | .31 | 14 | 23 | 31 | 40 | 51 | 1,487 | -1.3 | | -.118 |
| Carnegie Class | 32.8 | 11.3 | .17 | 14 | 26 | 31 | 40 | 51 | 4,647 | -2.5 | ** | -.220 |
| One UND | 32.1 | 11.1 | .65 | 14 | 24 | 31 | 40 | 49 | 438 | -1.8 | | -.155 |
| Learning Strategies | | | | | | | | | | | | |
| UND (N = 147) | 36.3 | 14.8 | 1.22 | 13 | 27 | 33 | 47 | 60 | | | | |
| Plains Public | 33.1 | 14.5 | .40 | 7 | 20 | 33 | 40 | 60 | 1,475 | 3.2 | * | .219 |
| Carnegie Class | 33.9 | 14.1 | .21 | 13 | 27 | 33 | 40 | 60 | 4,597 | 2.4 | * | .169 |
| One UND | 32.9 | 14.0 | .83 | 13 | 20 | 33 | 40 | 60 | 433 | 3.4 | * | .235 |
| Quantitative Reasoning | | | | | | | | | | | | |
| UND (N = 148) | 36.3 | 15.4 | 1.27 | 13 | 27 | 33 | 47 | 60 | | | | |
| Plains Public | 35.1 | 14.9 | .41 | 13 | 27 | 33 | 47 | 60 | 1,471 | 1.1 | | .075 |
| Carnegie Class | 35.0 | 14.7 | .22 | 13 | 27 | 33 | 47 | 60 | 4,600 | 1.3 | | .088 |
| One UND | 33.6 | 14.0 | .82 | 13 | 20 | 33 | 40 | 60 | 435 | 2.6 | | .181 |
| Learning with Peers | | | | | | | | | | | | |
| Collaborative Learning | | | | | | | | | | | | |
| UND (N = 147) | 28.4 | 18.3 | 1.51 | 0 | 10 | 30 | 40 | 60 | | | | |
| Plains Public | 40.0 | 13.5 | .37 | 20 | 30 | 40 | 50 | 60 | 164 | -11.5 | *** | -.824 |
| Carnegie Class | 40.5 | 13.8 | .21 | 15 | 30 | 40 | 50 | 60 | 152 | -12.0 | *** | -.860 |
| One UND | 40.5 | 13.3 | .78 | 20 | 30 | 40 | 50 | 60 | 227 | -12.1 | *** | -.798 |
| Discussions with Diverse Others | | | | | | | | | | | | |
| UND (N = 145) | 31.6 | 17.9 | 1.49 | 0 | 20 | 30 | 45 | 60 | | | | |
| Plains Public | 39.8 | 15.5 | .43 | 15 | 30 | 40 | 55 | 60 | 169 | -8.2 | *** | -.520 |
| Carnegie Class | 39.4 | 15.9 | .24 | 15 | 30 | 40 | 55 | 60 | 151 | -7.8 | *** | -.491 |
| One UND | 38.2 | 14.8 | .87 | 15 | 30 | 40 | 50 | 60 | 246 | -6.6 | *** | -.417 |

Seniors^a in Aero and Engineering

| | Mean statistics | | | Percentile ^d scores | | | | | Comparison results | | | |
|-------------------------------------|-----------------|-----------------|------------------|--------------------------------|------|------|------|------|------------------------------|------------|-------------------|--------------------------|
| | Mean | SD ^b | SEM ^c | 5th | 25th | 50th | 75th | 95th | Deg. of freedom ^e | Mean diff. | Sig. ^f | Effect size ^g |
| Experiences with Faculty | | | | | | | | | | | | |
| Student-Faculty Interaction | | | | | | | | | | | | |
| UND (N = 146) | 19.1 | 14.8 | 1.22 | 0 | 5 | 20 | 30 | 40 | | | | |
| Plains Public | 24.8 | 15.0 | .41 | 0 | 15 | 20 | 35 | 55 | 1,470 | -5.7 | *** | -.382 |
| Carnegie Class | 23.1 | 15.0 | .22 | 0 | 10 | 20 | 35 | 50 | 4,603 | -4.0 | ** | -.265 |
| One UND | 25.0 | 15.2 | .89 | 0 | 15 | 20 | 35 | 60 | 435 | -6.0 | *** | -.395 |
| Effective Teaching Practices | | | | | | | | | | | | |
| UND (N = 148) | 37.2 | 12.7 | 1.04 | 16 | 28 | 36 | 44 | 60 | | | | |
| Plains Public | 35.6 | 12.8 | .35 | 16 | 28 | 36 | 44 | 60 | 1,482 | 1.6 | | .125 |
| Carnegie Class | 36.3 | 12.9 | .19 | 16 | 28 | 36 | 44 | 60 | 4,638 | .9 | | .069 |
| One UND | 34.9 | 11.5 | .68 | 16 | 28 | 36 | 40 | 52 | 434 | 2.3 | | .194 |
| Campus Environment | | | | | | | | | | | | |
| Quality of Interactions | | | | | | | | | | | | |
| UND (N = 129) | 40.8 | 12.1 | 1.06 | 18 | 34 | 42 | 50 | 60 | | | | |
| Plains Public | 41.8 | 11.1 | .31 | 20 | 35 | 42 | 50 | 60 | 1,408 | -.9 | | -.081 |
| Carnegie Class | 40.4 | 11.7 | .18 | 18 | 34 | 42 | 48 | 60 | 4,422 | .5 | | .039 |
| One UND | 41.9 | 10.1 | .60 | 24 | 36 | 43 | 48 | 56 | 214 | -1.1 | | -.099 |
| Supportive Environment | | | | | | | | | | | | |
| UND (N = 145) | 28.2 | 13.8 | 1.15 | 8 | 18 | 28 | 38 | 55 | | | | |
| Plains Public | 30.2 | 12.8 | .35 | 8 | 20 | 30 | 40 | 53 | 1,477 | -2.0 | | -.153 |
| Carnegie Class | 29.5 | 13.2 | .20 | 8 | 20 | 30 | 40 | 53 | 4,614 | -1.3 | | -.101 |
| One UND | 30.2 | 12.4 | .73 | 10 | 23 | 30 | 40 | 53 | 432 | -2.0 | | -.154 |

Overall HIP Participation^{a,h}

The figures below display the percentage of students who participated in High-Impact Practices. Both figures include participation in service-learning, a learning community, and research with faculty. The senior figure also includes participation in an internship or field experience, study abroad, and culminating senior experience. The first segment in each bar shows the percentage who participated in at least two HIPs, and the full bar (both colors) represents the percentage who participated in at least one.



Statistical Comparisons

The table below displays the percentage of your students who participated in a given High-Impact Practice, including the percentage who participated overall (at least one, two or more). It also graphs the difference, in percentage points, between your students and those of your comparison groups. Blue bars indicate how much higher your institution's percentage is compared to the comparison group. Dark red bars indicate how much lower your institution's percentage is compared to the comparison group.

| | <i>Your students' participation compared with:</i> | | | | | | | |
|--|--|-------------------------|-----------------|-------------------------|-----------------|-------------------------|-----------------|--|
| | UND | Plains Public | | Carnegie Class | | One UND | | |
| | % | Difference ⁱ | ES ^j | Difference ⁱ | ES ^j | Difference ⁱ | ES ^j | |
| <i>First-Year Students in Aero and Engineering</i> | | | | | | | | |
| 12. Service-Learning | 46 | -1 | -0.02 | +2 | .04 | -10 | -0.20 | |
| 11c. Learning Community | 22 | +6 | .14 | +7 | .18 | -11 | -0.24 | |
| 11e. Research with Faculty | 0 | -7 | * -0.53 | -6 | -0.48 | -7 | * -0.55 | |
| Participated in at least one | 61 | +5 | .10 | +9 | .18 | -8 | -0.17 | |
| Participated in two or more | 7 | -5 | -0.18 | -4 | -0.15 | -18 | ** -0.52 | |
| <i>Seniors in Aero and Engineering</i> | | | | | | | | |
| 12. Service-Learning | 46 | -1 | -0.02 | -1 | -0.03 | -4 | -0.08 | |
| 11c. Learning Community | 20 | -5 | -0.11 | -6 | -0.14 | -12 | ** -0.27 | |
| 11e. Research with Faculty | 26 | -5 | -0.11 | -7 | -0.15 | -8 | -0.17 | |
| 11a. Internship or Field Exp. | 52 | -5 | -0.10 | -10 | * -0.20 | -5 | -0.10 | |
| 11d. Study Abroad | 6 | -7 | * -0.25 | -8 | ** -0.27 | -7 | * -0.24 | |
| 11f. Culminating Senior Exp. | 40 | -12 | ** -0.24 | -18 | *** -0.37 | -11 | * -0.22 | |
| Participated in at least one | 78 | -10 | *** -0.27 | -12 | *** -0.34 | -8 | * -0.20 | |
| Participated in two or more | 52 | -15 | *** -0.31 | -18 | *** -0.37 | -17 | *** -0.35 | |

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Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| Item wording or description | | | | Variable name ^l | | | | Values ^m | | | | Frequency Distributions | | | | Statistical Comparisons ^k | | | | | | | | | | | | | | |
|--|--|-------|--|--|--|----|------------|---------------------|------|------|------|-------------------------|--------------------------|--------------------------|----|--------------------------------------|-------|---------|-------|--|---------------|----------------|---------|--------------------------|--------------------------|--|-----|--|-----|--|
| | | | | | | | | | | | | UND | | Plains Public | | Carnegie Class | | One UND | | Your first-year students compared with | | | | | | | | | | |
| | | | | | | | | | | | | Count | % | Count | % | Count | % | Count | % | UND | Plains Public | Carnegie Class | One UND | Effect size ⁿ | Effect size ⁿ | | | | | |
| | | | | | | | | Mean | Mean | Mean | Mean | Mean | Effect size ⁿ | Effect size ⁿ | | | | | | | | | | | | | | | | |
| 1. During the current school year, about how often have you done the following? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Asked questions or contributed to course discussions in other ways | | | | askquest | | 1 | Never | 1 | 2 | 36 | 4 | 154 | 4 | 10 | 6 | 2.6 | 2.7 | -0.17 | 2.7 | -0.14 | 2.6 | .03 | | | | | | | | |
| | | 2 | | Sometimes | | 29 | | 51 | | 334 | | 38 | | 1,590 | | | | | | | | | 41 | | 83 | | 47 | | | |
| | | 3 | | Often | | 20 | | 35 | | 343 | | 39 | | 1,419 | | | | | | | | | 37 | | 61 | | 34 | | | |
| | | 4 | | Very often | | 7 | | 12 | | 159 | | 18 | | 697 | | | | | | | | | 18 | | 24 | | 13 | | | |
| | | Total | | | | 57 | | 100 | | 872 | | 100 | | 3,860 | | | | | | | | | 100 | | 178 | | 100 | | | |
| b. Prepared two or more drafts of a paper or assignment before turning it in | | | | drafts | | 1 | Never | 8 | 14 | 194 | 22 | 805 | 21 | 47 | 26 | 2.6 | 2.3 * | ▲ | .33 | 2.3 * | ▲ | .29 | 2.2 ** | .43 | | | | | | |
| | | 2 | | Sometimes | | 14 | | 24 | | 338 | | 39 | | 1,451 | | | | | | | | | | | 38 | | 66 | | 37 | |
| | | 3 | | Often | | 30 | | 51 | | 223 | | 26 | | 1,094 | | | | | | | | | | | 28 | | 46 | | 26 | |
| | | 4 | | Very often | | 7 | | 12 | | 114 | | 13 | | 504 | | | | | | | | | | | 13 | | 19 | | 11 | |
| | | Total | | | | 59 | | 100 | | 869 | | 100 | | 3,854 | | | | | | | | | | | 100 | | 178 | | 100 | |
| c. Come to class without completing readings or assignments | | | | unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i> | | 1 | Very often | 6 | 10 | 48 | 5 | 183 | 5 | 9 | 5 | 2.8 | 3.0 * | ▼ | -0.30 | 3.0 * | ▼ | -0.33 | 3.0 * | -0.34 | | | | | | |
| | | 2 | | Often | | 11 | | 19 | | 112 | | 13 | | 510 | | | | | | | | | | | 13 | | 19 | | 11 | |
| | | 3 | | Sometimes | | 32 | | 54 | | 496 | | 57 | | 2,179 | | | | | | | | | | | 56 | | 105 | | 59 | |
| | | 4 | | Never | | 10 | | 17 | | 217 | | 25 | | 992 | | | | | | | | | | | 26 | | 45 | | 25 | |
| | | Total | | | | 59 | | 100 | | 873 | | 100 | | 3,864 | | | | | | | | | | | 100 | | 178 | | 100 | |
| d. Attended an art exhibit, play, or other arts performance (dance, music, etc.) | | | | attendart | | 1 | Never | 32 | 54 | 408 | 47 | 1,642 | 43 | 68 | 38 | 1.8 | 1.8 | .02 | 1.8 | -0.03 | 1.9 | -0.12 | | | | | | | | |
| | | 2 | | Sometimes | | 12 | | 20 | | 318 | | 36 | | 1,518 | | | | | | | | | 39 | | 73 | | 41 | | | |
| | | 3 | | Often | | 11 | | 19 | | 91 | | 10 | | 500 | | | | | | | | | 13 | | 26 | | 15 | | | |
| | | 4 | | Very often | | 4 | | 7 | | 55 | | 6 | | 198 | | | | | | | | | 5 | | 11 | | 6 | | | |
| | | Total | | | | 59 | | 100 | | 872 | | 100 | | 3,858 | | | | | | | | | 100 | | 178 | | 100 | | | |
| e. Asked another student to help you understand course material | | | | CLaskhelp | | 1 | Never | 3 | 5 | 31 | 4 | 172 | 4 | 6 | 3 | 2.8 | 2.9 | -0.05 | 2.9 | -0.07 | 2.9 | -0.06 | | | | | | | | |
| | | 2 | | Sometimes | | 17 | | 29 | | 257 | | 29 | | 1,112 | | | | | | | | | 29 | | 50 | | 28 | | | |
| | | 3 | | Often | | 25 | | 42 | | 361 | | 41 | | 1,483 | | | | | | | | | 38 | | 79 | | 44 | | | |
| | | 4 | | Very often | | 14 | | 24 | | 224 | | 26 | | 1,100 | | | | | | | | | 28 | | 43 | | 24 | | | |
| | | Total | | | | 59 | | 100 | | 873 | | 100 | | 3,867 | | | | | | | | | 100 | | 178 | | 100 | | | |
| f. Explained course material to one or more students | | | | CLexplain | | 1 | Never | 2 | 3 | 21 | 2 | 84 | 2 | 5 | 3 | 2.8 | 3.0 | -0.15 | 3.0 | -0.15 | 2.9 | -0.12 | | | | | | | | |
| | | 2 | | Sometimes | | 16 | | 28 | | 233 | | 27 | | 1,053 | | | | | | | | | 27 | | 48 | | 27 | | | |
| | | 3 | | Often | | 29 | | 50 | | 367 | | 42 | | 1,640 | | | | | | | | | 42 | | 77 | | 44 | | | |
| | | 4 | | Very often | | 11 | | 19 | | 248 | | 29 | | 1,084 | | | | | | | | | 28 | | 47 | | 27 | | | |
| | | Total | | | | 58 | | 100 | | 869 | | 100 | | 3,861 | | | | | | | | | 100 | | 177 | | 100 | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|---|-------------|-------|------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|--------------------------|---------------|--------------------------|----------------|--------------------------|---------|--------------------------|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| | | | | Count | % | Count | % | Count | % | Count | % | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ |
| g. Prepared for exams by discussing or working through course material with other students | CLstudy | 1 | Never | 5 | 8 | 82 | 9 | 372 | 10 | 15 | 8 | 2.7 | 2.8 | -.04 | 2.8 | -.03 | 2.8 | -.03 | |
| | | 2 | Sometimes | 17 | 29 | 263 | 30 | 1,147 | 30 | 53 | 30 | | | | | | | | |
| | | 3 | Often | 25 | 42 | 289 | 33 | 1,329 | 34 | 68 | 38 | | | | | | | | |
| | | 4 | Very often | 12 | 20 | 237 | 27 | 1,011 | 26 | 42 | 24 | | | | | | | | |
| | | Total | | 59 | 100 | 871 | 100 | 3,859 | 100 | 178 | 100 | | | | | | | | |
| h. Worked with other students on course projects or assignments | CLproject | 1 | Never | 1 | 2 | 37 | 4 | 124 | 3 | 5 | 3 | 2.9 | 2.9 | .04 | 2.9 | -.02 | 2.8 | .07 | |
| | | 2 | Sometimes | 16 | 27 | 270 | 31 | 1,089 | 28 | 56 | 31 | | | | | | | | |
| | | 3 | Often | 30 | 51 | 340 | 39 | 1,630 | 42 | 79 | 44 | | | | | | | | |
| | | 4 | Very often | 12 | 20 | 223 | 26 | 1,016 | 26 | 38 | 21 | | | | | | | | |
| | | Total | | 59 | 100 | 870 | 100 | 3,859 | 100 | 178 | 100 | | | | | | | | |
| i. Given a course presentation | present | 1 | Never | 10 | 17 | 228 | 26 | 707 | 18 | 36 | 20 | 2.2 | 2.1 | .04 | 2.2 | -.09 | 2.2 | -.10 | |
| | | 2 | Sometimes | 33 | 56 | 382 | 44 | 1,901 | 49 | 75 | 42 | | | | | | | | |
| | | 3 | Often | 13 | 22 | 188 | 22 | 901 | 23 | 54 | 31 | | | | | | | | |
| | | 4 | Very often | 3 | 5 | 70 | 8 | 350 | 9 | 12 | 7 | | | | | | | | |
| | | Total | | 59 | 100 | 868 | 100 | 3,859 | 100 | 177 | 100 | | | | | | | | |
| 2. During the current school year, about how often have you done the following? | | | | | | | | | | | | | | | | | | | |
| a. Combined ideas from different courses when completing assignments | RIintegrate | 1 | Never | 4 | 7 | 54 | 6 | 290 | 8 | 15 | 8 | 2.6 | 2.6 | -.05 | 2.6 | .02 | 2.5 | .09 | |
| | | 2 | Sometimes | 20 | 34 | 365 | 42 | 1,623 | 42 | 77 | 43 | | | | | | | | |
| | | 3 | Often | 31 | 53 | 314 | 36 | 1,451 | 38 | 68 | 38 | | | | | | | | |
| | | 4 | Very often | 3 | 5 | 137 | 16 | 490 | 13 | 18 | 10 | | | | | | | | |
| | | Total | | 58 | 100 | 870 | 100 | 3,854 | 100 | 178 | 100 | | | | | | | | |
| b. Connected your learning to societal problems or issues | RIsocietal | 1 | Never | 7 | 12 | 120 | 14 | 552 | 14 | 32 | 18 | 2.2 | 2.3 * | -0.21 | 2.3 * | -0.22 | 2.2 | -0.05 | |
| | | 2 | Sometimes | 37 | 63 | 434 | 50 | 1,821 | 47 | 93 | 52 | | | | | | | | |
| | | 3 | Often | 14 | 24 | 225 | 26 | 1,105 | 29 | 40 | 22 | | | | | | | | |
| | | 4 | Very often | 1 | 2 | 91 | 10 | 377 | 10 | 13 | 7 | | | | | | | | |
| | | Total | | 59 | 100 | 870 | 100 | 3,855 | 100 | 178 | 100 | | | | | | | | |
| c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments | RIDiverse | 1 | Never | 10 | 17 | 158 | 18 | 639 | 17 | 33 | 19 | 2.1 | 2.3 | -.18 | 2.3 | -.22 | 2.2 | -.10 | |
| | | 2 | Sometimes | 33 | 56 | 382 | 44 | 1,732 | 45 | 86 | 49 | | | | | | | | |
| | | 3 | Often | 14 | 24 | 254 | 29 | 1,066 | 28 | 45 | 25 | | | | | | | | |
| | | 4 | Very often | 2 | 3 | 77 | 9 | 412 | 11 | 13 | 7 | | | | | | | | |
| | | Total | | 59 | 100 | 871 | 100 | 3,849 | 100 | 177 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|---|-------------|-------|------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|--------------------------|---------------|--------------------------|----------------|--------------------------|---------|--|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| | | | | Count | % | Count | % | Count | % | Count | % | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | | |
| d. Examined the strengths and weaknesses of your own views on a topic or issue | RIownview | 1 | Never | 1 | 2 | 50 | 6 | 211 | 5 | 12 | 7 | 2.6 | 2.7 | -.07 | 2.7 | -.11 | 2.6 | .04 | |
| | | 2 | Sometimes | 25 | 42 | 305 | 35 | 1,291 | 34 | 74 | 42 | | | | | | | | |
| | | 3 | Often | 28 | 47 | 383 | 44 | 1,743 | 45 | 65 | 37 | | | | | | | | |
| | | 4 | Very often | 5 | 8 | 132 | 15 | 607 | 16 | 26 | 15 | | | | | | | | |
| | | Total | | 59 | 100 | 870 | 100 | 3,852 | 100 | 177 | 100 | | | | | | | | |
| e. Tried to better understand someone else's views by imagining how an issue looks from their perspective | RIperspect | 1 | Never | 2 | 3 | 35 | 4 | 141 | 4 | 11 | 6 | 2.7 | 2.8 | -.21 | 2.9 | -.22 | 2.8 | -.11 | |
| | | 2 | Sometimes | 22 | 37 | 249 | 29 | 1,094 | 28 | 55 | 31 | | | | | | | | |
| | | 3 | Often | 28 | 47 | 406 | 47 | 1,804 | 47 | 76 | 43 | | | | | | | | |
| | | 4 | Very often | 7 | 12 | 181 | 21 | 812 | 21 | 36 | 20 | | | | | | | | |
| | | Total | | 59 | 100 | 871 | 100 | 3,851 | 100 | 178 | 100 | | | | | | | | |
| f. Learned something that changed the way you understand an issue or concept | RInewview | 1 | Never | 1 | 2 | 27 | 3 | 130 | 3 | 8 | 4 | 2.7 | 2.8 | -.18 | 2.8 | -.16 | 2.8 | -.10 | |
| | | 2 | Sometimes | 24 | 41 | 283 | 33 | 1,261 | 33 | 60 | 34 | | | | | | | | |
| | | 3 | Often | 27 | 46 | 377 | 43 | 1,686 | 44 | 77 | 43 | | | | | | | | |
| | | 4 | Very often | 7 | 12 | 181 | 21 | 762 | 20 | 33 | 19 | | | | | | | | |
| | | Total | | 59 | 100 | 868 | 100 | 3,839 | 100 | 178 | 100 | | | | | | | | |
| g. Connected ideas from your courses to your prior experiences and knowledge | RIconnect | 1 | Never | 0 | 0 | 9 | 1 | 51 | 1 | 2 | 1 | 2.8 | 3.0 * | -.33 | 3.0 * | -.34 | 3.0 | -.27 | |
| | | 2 | Sometimes | 17 | 30 | 191 | 22 | 824 | 21 | 43 | 24 | | | | | | | | |
| | | 3 | Often | 36 | 63 | 454 | 52 | 1,968 | 51 | 91 | 52 | | | | | | | | |
| | | 4 | Very often | 4 | 7 | 215 | 25 | 1,005 | 26 | 40 | 23 | | | | | | | | |
| | | Total | | 57 | 100 | 869 | 100 | 3,848 | 100 | 176 | 100 | | | | | | | | |
| 3. During the current school year, about how often have you done the following? | | | | | | | | | | | | | | | | | | | |
| a. Talked about career plans with a faculty member | SFcareer | 1 | Never | 9 | 15 | 145 | 17 | 977 | 25 | 34 | 19 | 2.3 | 2.3 | -.03 | 2.1 | .16 | 2.2 | .06 | |
| | | 2 | Sometimes | 29 | 49 | 399 | 46 | 1,705 | 44 | 87 | 49 | | | | | | | | |
| | | 3 | Often | 16 | 27 | 231 | 27 | 790 | 21 | 38 | 21 | | | | | | | | |
| | | 4 | Very often | 5 | 8 | 95 | 11 | 371 | 10 | 19 | 11 | | | | | | | | |
| | | Total | | 59 | 100 | 870 | 100 | 3,843 | 100 | 178 | 100 | | | | | | | | |
| b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.) | SFotherwork | 1 | Never | 29 | 49 | 376 | 43 | 1,975 | 51 | 91 | 51 | 1.6 | 1.9 | -.24 | 1.7 | -.08 | 1.7 | -.09 | |
| | | 2 | Sometimes | 22 | 37 | 294 | 34 | 1,191 | 31 | 53 | 30 | | | | | | | | |
| | | 3 | Often | 8 | 14 | 144 | 17 | 481 | 13 | 24 | 14 | | | | | | | | |
| | | 4 | Very often | 0 | 0 | 55 | 6 | 198 | 5 | 9 | 5 | | | | | | | | |
| | | Total | | 59 | 100 | 869 | 100 | 3,845 | 100 | 177 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | |
|--|----------------------------|---------------------|------------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--|---------------|----------------|---------|--------------------------|--------------------------|--------------------------|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | Your first-year students compared with | | | | | | |
| | | | | Count | % | Count | % | Count | % | Count | % | UND | Plains Public | Carnegie Class | One UND | Effect size ⁿ | Effect size ⁿ | Effect size ⁿ |
| Item wording or description | Variable name ^l | Values ^m | Response options | UND | | Plains Public | | Carnegie Class | | One UND | | Mean | Mean | Mean | Mean | Mean | Mean | |
| c. Discussed course topics, ideas, or concepts with a faculty member outside of class | SFdiscuss | 1 | Never | 19 | 32 | 251 | 29 | 1,242 | 32 | 47 | 26 | 1.9 | 2.0 | -.12 | 2.0 | -.03 | 2.0 | -.11 |
| | | 2 | Sometimes | 26 | 44 | 392 | 45 | 1,756 | 46 | 91 | 51 | | | | | | | |
| | | 3 | Often | 13 | 22 | 167 | 19 | 612 | 16 | 30 | 17 | | | | | | | |
| | | 4 | Very often | 1 | 2 | 58 | 7 | 233 | 6 | 10 | 6 | | | | | | | |
| | | Total | | 59 | 100 | 868 | 100 | 3,843 | 100 | 178 | 100 | | | | | | | |
| d. Discussed your academic performance with a faculty member | SFperform | 1 | Never | 10 | 17 | 228 | 26 | 1,151 | 30 | 48 | 27 | 2.0 | 2.1 | -.08 | 2.0 | .02 | 2.0 | -.01 |
| | | 2 | Sometimes | 39 | 66 | 412 | 47 | 1,821 | 47 | 89 | 50 | | | | | | | |
| | | 3 | Often | 10 | 17 | 182 | 21 | 653 | 17 | 33 | 19 | | | | | | | |
| | | 4 | Very often | 0 | 0 | 51 | 6 | 222 | 6 | 8 | 4 | | | | | | | |
| | | Total | | 59 | 100 | 873 | 100 | 3,847 | 100 | 178 | 100 | | | | | | | |
| 4. During the current school year, how much has your coursework emphasized the following? | | | | | | | | | | | | | | | | | | |
| a. Memorizing course material | memorize | 1 | Very little | 1 | 2 | 26 | 3 | 129 | 3 | 7 | 4 | 2.8 | 2.8 | .00 | 2.9 | -.01 | 2.8 | .06 |
| | | 2 | Some | 19 | 32 | 254 | 29 | 1,125 | 29 | 49 | 28 | | | | | | | |
| | | 3 | Quite a bit | 27 | 46 | 417 | 48 | 1,765 | 46 | 93 | 53 | | | | | | | |
| | | 4 | Very much | 12 | 20 | 173 | 20 | 825 | 21 | 28 | 16 | | | | | | | |
| | | Total | | 59 | 100 | 870 | 100 | 3,844 | 100 | 177 | 100 | | | | | | | |
| b. Applying facts, theories, or methods to practical problems or new situations | HOapply | 1 | Very little | 0 | 0 | 15 | 2 | 76 | 2 | 1 | 1 | 3.0 | 3.1 | -.16 | 3.1 | -.15 | 3.1 | -.18 |
| | | 2 | Some | 15 | 25 | 153 | 18 | 669 | 17 | 35 | 20 | | | | | | | |
| | | 3 | Quite a bit | 29 | 49 | 418 | 48 | 1,831 | 48 | 82 | 46 | | | | | | | |
| | | 4 | Very much | 15 | 25 | 287 | 33 | 1,269 | 33 | 60 | 34 | | | | | | | |
| | | Total | | 59 | 100 | 873 | 100 | 3,845 | 100 | 178 | 100 | | | | | | | |
| c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts | HOanalyze | 1 | Very little | 1 | 2 | 36 | 4 | 116 | 3 | 3 | 2 | 3.0 | 2.9 | .08 | 3.0 | -.02 | 2.9 | .04 |
| | | 2 | Some | 14 | 24 | 227 | 26 | 904 | 24 | 51 | 29 | | | | | | | |
| | | 3 | Quite a bit | 30 | 51 | 395 | 45 | 1,769 | 46 | 78 | 44 | | | | | | | |
| | | 4 | Very much | 14 | 24 | 211 | 24 | 1,052 | 27 | 46 | 26 | | | | | | | |
| | | Total | | 59 | 100 | 869 | 100 | 3,841 | 100 | 178 | 100 | | | | | | | |
| d. Evaluating a point of view, decision, or information source | HOevaluate | 1 | Very little | 3 | 5 | 73 | 8 | 225 | 6 | 23 | 13 | 2.5 | 2.6 | -.11 | 2.7 * | -.27 | 2.5 | -.03 |
| | | 2 | Some | 27 | 47 | 323 | 37 | 1,257 | 33 | 59 | 33 | | | | | | | |
| | | 3 | Quite a bit | 23 | 40 | 346 | 40 | 1,653 | 43 | 73 | 41 | | | | | | | |
| | | 4 | Very much | 5 | 9 | 128 | 15 | 698 | 18 | 23 | 13 | | | | | | | |
| | | Total | | 58 | 100 | 870 | 100 | 3,833 | 100 | 178 | 100 | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| Item wording or description | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | |
|--|--|----|-----|-------------------------|-----|---------------|-----|----------------|-----|---------|----|--|---------------|--------------------------|----------------|--------------------------|---------|--------------------------|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | Your first-year students compared with | | | | | | |
| | | | | Count | % | Count | % | Count | % | Count | % | UND | Plains Public | Effect size ⁿ | Carnegie Class | Effect size ⁿ | One UND | Effect size ⁿ |
| e. Forming a new idea or understanding from various pieces of information | | | | UND | | Plains Public | | Carnegie Class | | One UND | | 2.6 | 2.8 | -0.24 | 2.8 * | -0.29 | 2.7 | -0.16 |
| | | | | 3 | 5 | 50 | 6 | 152 | 4 | 8 | 4 | | | | | | | |
| | | | | 23 | 39 | 264 | 30 | 1,194 | 31 | 67 | 38 | | | | | | | |
| | | | | 29 | 49 | 384 | 44 | 1,730 | 45 | 73 | 41 | | | | | | | |
| | | | | 4 | 7 | 170 | 20 | 764 | 20 | 30 | 17 | | | | | | | |
| Total | | 59 | 100 | 868 | 100 | 3,840 | 100 | 178 | 100 | | | | | | | | | |
| 5. During the current school year, to what extent have your instructors done the following? | | | | | | | | | | | | | | | | | | |
| a. Clearly explained course goals and requirements | | | | UND | | Plains Public | | Carnegie Class | | One UND | | 2.6 | 3.0 *** | -0.47 | 3.0 *** | -0.44 | 3.0 ** | -0.44 |
| | | | | 2 | 3 | 22 | 3 | 109 | 3 | 5 | 3 | | | | | | | |
| | | | | 23 | 39 | 182 | 21 | 870 | 23 | 39 | 22 | | | | | | | |
| | | | | 28 | 47 | 443 | 51 | 1,814 | 47 | 89 | 50 | | | | | | | |
| | | | | 6 | 10 | 221 | 25 | 1,049 | 27 | 45 | 25 | | | | | | | |
| Total | | 59 | 100 | 868 | 100 | 3,842 | 100 | 178 | 100 | | | | | | | | | |
| b. Taught course sessions in an organized way | | | | UND | | Plains Public | | Carnegie Class | | One UND | | 2.7 | 3.0 ** | -0.38 | 3.0 ** | -0.34 | 2.9 * | -0.33 |
| | | | | 3 | 5 | 28 | 3 | 134 | 3 | 6 | 3 | | | | | | | |
| | | | | 17 | 29 | 171 | 20 | 885 | 23 | 36 | 20 | | | | | | | |
| | | | | 34 | 58 | 454 | 52 | 1,783 | 46 | 99 | 56 | | | | | | | |
| | | | | 5 | 8 | 213 | 25 | 1,035 | 27 | 36 | 20 | | | | | | | |
| Total | | 59 | 100 | 866 | 100 | 3,837 | 100 | 177 | 100 | | | | | | | | | |
| c. Used examples or illustrations to explain difficult points | | | | UND | | Plains Public | | Carnegie Class | | One UND | | 2.7 | 3.1 *** | -0.47 | 3.0 ** | -0.39 | 3.1 ** | -0.47 |
| | | | | 2 | 3 | 25 | 3 | 127 | 3 | 4 | 2 | | | | | | | |
| | | | | 21 | 36 | 168 | 19 | 842 | 22 | 35 | 20 | | | | | | | |
| | | | | 29 | 49 | 407 | 47 | 1,735 | 45 | 87 | 49 | | | | | | | |
| | | | | 7 | 12 | 269 | 31 | 1,135 | 30 | 52 | 29 | | | | | | | |
| Total | | 59 | 100 | 869 | 100 | 3,839 | 100 | 178 | 100 | | | | | | | | | |
| d. Provided feedback on a draft or work in progress | | | | UND | | Plains Public | | Carnegie Class | | One UND | | 2.4 | 2.6 | -0.21 | 2.6 | -0.24 | 2.5 | -0.16 |
| | | | | 6 | 10 | 94 | 11 | 392 | 10 | 21 | 12 | | | | | | | |
| | | | | 29 | 49 | 309 | 36 | 1,344 | 35 | 64 | 37 | | | | | | | |
| | | | | 18 | 31 | 313 | 36 | 1,419 | 37 | 63 | 36 | | | | | | | |
| | | | | 6 | 10 | 149 | 17 | 679 | 18 | 27 | 15 | | | | | | | |
| Total | | 59 | 100 | 865 | 100 | 3,834 | 100 | 175 | 100 | | | | | | | | | |
| e. Provided prompt and detailed feedback on tests or completed assignments | | | | UND | | Plains Public | | Carnegie Class | | One UND | | 2.4 | 2.6 | -0.26 | 2.6 | -0.21 | 2.6 | -0.21 |
| | | | | 5 | 8 | 83 | 10 | 369 | 10 | 22 | 12 | | | | | | | |
| | | | | 30 | 51 | 291 | 34 | 1,420 | 37 | 54 | 31 | | | | | | | |
| | | | | 19 | 32 | 364 | 42 | 1,463 | 38 | 77 | 44 | | | | | | | |
| | | | | 5 | 8 | 130 | 15 | 588 | 15 | 24 | 14 | | | | | | | |
| Total | | 59 | 100 | 868 | 100 | 3,840 | 100 | 177 | 100 | | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|--|--|---------------------|------------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--|-------|--------------------------|-------|--------------------------|--------|--------------------------|--|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| Item wording or description | Variable name ^l | Values ^m | Response options | | | | | | | | | Your first-year students compared with | | | | | | | |
| | | | | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | |
| 6. During the current school year, about how often have you done the following? | | | | | | | | | | | | | | | | | | | |
| a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.) | QRconclude | 1 | Never | 2 | 3 | 33 | 4 | 169 | 4 | 10 | 6 | 2.9 | 2.9 | -.06 | 2.8 | .04 | 2.8 | .06 | |
| | | 2 | Sometimes | 12 | 20 | 209 | 24 | 1,094 | 29 | 49 | 28 | | | | | | | | |
| | | 3 | Often | 36 | 61 | 416 | 48 | 1,715 | 45 | 79 | 45 | | | | | | | | |
| | | 4 | Very often | 9 | 15 | 210 | 24 | 856 | 22 | 39 | 22 | | | | | | | | |
| | | | Total | 59 | 100 | 868 | 100 | 3,834 | 100 | 177 | 100 | | | | | | | | |
| b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.) | QRproblem | 1 | Never | 12 | 20 | 161 | 19 | 653 | 17 | 45 | 25 | 2.2 | 2.4 | -.18 | 2.4 | -.18 | 2.3 | -.02 | |
| | | 2 | Sometimes | 26 | 44 | 316 | 36 | 1,484 | 39 | 60 | 34 | | | | | | | | |
| | | 3 | Often | 16 | 27 | 273 | 31 | 1,195 | 31 | 53 | 30 | | | | | | | | |
| | | 4 | Very often | 5 | 8 | 120 | 14 | 501 | 13 | 19 | 11 | | | | | | | | |
| | | | Total | 59 | 100 | 870 | 100 | 3,833 | 100 | 177 | 100 | | | | | | | | |
| c. Evaluated what others have concluded from numerical information | QRevaluate | 1 | Never | 8 | 14 | 112 | 13 | 475 | 12 | 24 | 14 | 2.4 | 2.4 | -.11 | 2.5 | -.12 | 2.4 | .00 | |
| | | 2 | Sometimes | 25 | 42 | 347 | 40 | 1,568 | 41 | 80 | 45 | | | | | | | | |
| | | 3 | Often | 23 | 39 | 325 | 37 | 1,324 | 35 | 58 | 33 | | | | | | | | |
| | | 4 | Very often | 3 | 5 | 87 | 10 | 452 | 12 | 14 | 8 | | | | | | | | |
| | | | Total | 59 | 100 | 871 | 100 | 3,819 | 100 | 176 | 100 | | | | | | | | |
| 7. During the current school year, about how many papers, reports, or other writing tasks of the following lengths have you been assigned? (Include those not yet completed.) | | | | | | | | | | | | | | | | | | | |
| a. Up to 5 pages | wrshortnum | 0 | None | 1 | 2 | 97 | 11 | 268 | 7 | 20 | 11 | 6.3 | 5.4 | .16 | 6.0 | .04 | 5.5 | .14 | |
| | (Recoded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.) | 1.5 | 1-2 | 10 | 17 | 232 | 27 | 844 | 22 | 44 | 25 | | | | | | | | |
| | | 4 | 3-5 | 25 | 42 | 260 | 30 | 1,295 | 34 | 50 | 28 | | | | | | | | |
| | | 8 | 6-10 | 13 | 22 | 155 | 18 | 807 | 21 | 39 | 22 | | | | | | | | |
| | | 13 | 11-15 | 7 | 12 | 68 | 8 | 337 | 9 | 12 | 7 | | | | | | | | |
| | | 18 | 16-20 | 2 | 3 | 31 | 4 | 132 | 3 | 7 | 4 | | | | | | | | |
| | | 23 | More than 20 | 1 | 2 | 27 | 3 | 151 | 4 | 5 | 3 | | | | | | | | |
| | | | Total | 59 | 100 | 870 | 100 | 3,834 | 100 | 177 | 100 | | | | | | | | |
| b. Between 6 and 10 pages | wrmednum | 0 | None | 12 | 20 | 388 | 45 | 1,372 | 36 | 79 | 45 | 2.8 | 1.9 * | .33 | 2.0 * | .27 | 1.7 ** | .40 | |
| | (Recoded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.) | 1.5 | 1-2 | 21 | 36 | 300 | 35 | 1,578 | 41 | 63 | 36 | | | | | | | | |
| | | 4 | 3-5 | 22 | 37 | 102 | 12 | 589 | 15 | 21 | 12 | | | | | | | | |
| | | 8 | 6-10 | 3 | 5 | 57 | 7 | 204 | 5 | 11 | 6 | | | | | | | | |
| | | 13 | 11-15 | 0 | 0 | 18 | 2 | 55 | 1 | 1 | 1 | | | | | | | | |
| | | 18 | 16-20 | 0 | 0 | 1 | 0 | 12 | 0 | 1 | 1 | | | | | | | | |
| | | 23 | More than 20 | 1 | 2 | 2 | 0 | 18 | 0 | 0 | 0 | | | | | | | | |
| | | | Total | 59 | 100 | 868 | 100 | 3,828 | 100 | 176 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|---|---|--|--------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--|---------------|----------------|---------|--------------------------|--------------------------|--------------------------|--|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | Your first-year students compared with | | | | | | | |
| | | | | Count | % | Count | % | Count | % | Count | % | UND | Plains Public | Carnegie Class | One UND | Effect size ⁿ | Effect size ⁿ | Effect size ⁿ | |
| c. 11 pages or more | wrlongnum | 0 | None | 37 | 64 | 683 | 79 | 2,861 | 75 | 143 | 81 | .9 | .8 | .03 | .9 | .02 | .5 | .17 | |
| | (Recoded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.) | 1.5 | 1-2 | 20 | 34 | 116 | 13 | 683 | 18 | 23 | 13 | | | | | | | | |
| | | 4 | 3-5 | 0 | 0 | 29 | 3 | 147 | 4 | 7 | 4 | | | | | | | | |
| | | 8 | 6-10 | 0 | 0 | 19 | 2 | 71 | 2 | 1 | 1 | | | | | | | | |
| | | 13 | 11-15 | 0 | 0 | 14 | 2 | 38 | 1 | 2 | 1 | | | | | | | | |
| | | 18 | 16-20 | 0 | 0 | 2 | 0 | 14 | 0 | 0 | 0 | | | | | | | | |
| | | 23 | More than 20 | 1 | 2 | 3 | 0 | 16 | 0 | 0 | 0 | | | | | | | | |
| | Total | | | 58 | 100 | 866 | 100 | 3,830 | 100 | 176 | 100 | | | | | | | | |
| Estimated number of assigned pages of student writing. | wpages | (Continuous variable, recoded and summed by NSSE from wrshort, wrmed, and wrlong. Values are estimated pages of assigned writing.) | | | | | | | | | | 55.1 | 43.5 | .18 | 46.8 | .13 | 38.3 * | .30 | |
| 8. During the current school year, about how often have you had discussions with people from the following groups? | | | | | | | | | | | | | | | | | | | |
| a. People of a race or ethnicity other than your own | DDrace | 1 | Never | 1 | 2 | 42 | 5 | 185 | 5 | 12 | 7 | 2.7 | 2.9 | -.26 | 3.0 ** | -.35 | 2.9 | -.26 | |
| | | 2 | Sometimes | 30 | 51 | 261 | 30 | 1,081 | 28 | 50 | 28 | | | | | | | | |
| | | 3 | Often | 16 | 27 | 315 | 36 | 1,180 | 31 | 60 | 34 | | | | | | | | |
| | | 4 | Very often | 12 | 20 | 251 | 29 | 1,387 | 36 | 55 | 31 | | | | | | | | |
| | Total | | | 59 | 100 | 869 | 100 | 3,833 | 100 | 177 | 100 | | | | | | | | |
| b. People from an economic background other than your own | DDeconomic | 1 | Never | 1 | 2 | 30 | 3 | 140 | 4 | 7 | 4 | 2.9 | 3.0 | -.12 | 3.0 | -.18 | 3.0 | -.19 | |
| | | 2 | Sometimes | 20 | 34 | 224 | 26 | 921 | 24 | 37 | 21 | | | | | | | | |
| | | 3 | Often | 22 | 38 | 349 | 40 | 1,444 | 38 | 75 | 42 | | | | | | | | |
| | | 4 | Very often | 15 | 26 | 267 | 31 | 1,326 | 35 | 58 | 33 | | | | | | | | |
| | Total | | | 58 | 100 | 870 | 100 | 3,831 | 100 | 177 | 100 | | | | | | | | |
| c. People with religious beliefs other than your own | DDreligion | 1 | Never | 2 | 3 | 40 | 5 | 277 | 7 | 9 | 5 | 2.8 | 3.0 | -.22 | 2.9 | -.16 | 3.1 * | -.36 | |
| | | 2 | Sometimes | 24 | 41 | 237 | 27 | 1,042 | 27 | 33 | 19 | | | | | | | | |
| | | 3 | Often | 19 | 32 | 316 | 36 | 1,234 | 32 | 71 | 40 | | | | | | | | |
| | | 4 | Very often | 14 | 24 | 277 | 32 | 1,279 | 33 | 64 | 36 | | | | | | | | |
| | Total | | | 59 | 100 | 870 | 100 | 3,832 | 100 | 177 | 100 | | | | | | | | |
| d. People with political views other than your own | DDpolitical | 1 | Never | 2 | 3 | 39 | 4 | 193 | 5 | 6 | 3 | 2.8 | 3.0 | -.18 | 2.9 | -.13 | 3.1 * | -.30 | |
| | | 2 | Sometimes | 20 | 34 | 218 | 25 | 1,066 | 28 | 37 | 21 | | | | | | | | |
| | | 3 | Often | 23 | 39 | 325 | 37 | 1,329 | 35 | 71 | 40 | | | | | | | | |
| | | 4 | Very often | 14 | 24 | 288 | 33 | 1,246 | 32 | 63 | 36 | | | | | | | | |
| | Total | | | 59 | 100 | 870 | 100 | 3,834 | 100 | 177 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| Item wording or description | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | | | | | | |
|--|--|--|--|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|--------|--------------------------|--------|--------------------------|-------|--------------------------|--|--|--|--|--|--|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | | | | | | |
| | | | | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | | | | | | |
| 9. During the current school year, about how often have you done the following? | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Identified key information from reading assignments | | | | Lsreading | | | | | | | | | | | | | | | | | | | | |
| 1 Never | | | | 2 | 3 | 36 | 4 | 115 | 3 | 9 | 5 | 2.6 | 2.8 | -.20 | 2.9 * | -.28 | 2.7 | -.12 | | | | | | |
| 2 Sometimes | | | | 20 | 34 | 269 | 31 | 1,068 | 28 | 61 | 35 | | | | | | | | | | | | | |
| 3 Often | | | | 34 | 58 | 397 | 46 | 1,872 | 49 | 73 | 41 | | | | | | | | | | | | | |
| 4 Very often | | | | 3 | 5 | 165 | 19 | 765 | 20 | 33 | 19 | | | | | | | | | | | | | |
| Total | | | | 59 | 100 | 867 | 100 | 3,820 | 100 | 176 | 100 | | | | | | | | | | | | | |
| b. Reviewed your notes after class | | | | LSnotes | | | | | | | | | | | | | | | | | | | | |
| 1 Never | | | | 8 | 14 | 40 | 5 | 210 | 5 | 12 | 7 | 2.5 | 2.8 ** | -.42 | 2.8 ** | -.40 | 2.7 * | -.30 | | | | | | |
| 2 Sometimes | | | | 23 | 39 | 302 | 35 | 1,277 | 33 | 63 | 36 | | | | | | | | | | | | | |
| 3 Often | | | | 21 | 36 | 297 | 34 | 1,359 | 36 | 65 | 37 | | | | | | | | | | | | | |
| 4 Very often | | | | 7 | 12 | 228 | 26 | 977 | 26 | 37 | 21 | | | | | | | | | | | | | |
| Total | | | | 59 | 100 | 867 | 100 | 3,823 | 100 | 177 | 100 | | | | | | | | | | | | | |
| c. Summarized what you learned in class or from course materials | | | | LSsummary | | | | | | | | | | | | | | | | | | | | |
| 1 Never | | | | 9 | 15 | 58 | 7 | 288 | 8 | 16 | 9 | 2.5 | 2.7 | -.25 | 2.7 | -.25 | 2.5 | -.08 | | | | | | |
| 2 Sometimes | | | | 21 | 36 | 327 | 38 | 1,367 | 36 | 71 | 40 | | | | | | | | | | | | | |
| 3 Often | | | | 21 | 36 | 311 | 36 | 1,422 | 37 | 66 | 38 | | | | | | | | | | | | | |
| 4 Very often | | | | 8 | 14 | 172 | 20 | 753 | 20 | 23 | 13 | | | | | | | | | | | | | |
| Total | | | | 59 | 100 | 868 | 100 | 3,830 | 100 | 176 | 100 | | | | | | | | | | | | | |
| 10. During the current school year, to what extent have your courses challenged you to do your best work? | | | | | | | | | | | | | | | | | | | | | | | | |
| challenge | | | | 1 Not at all | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | 1 | 2 | 6 | 1 | 36 | 1 | 0 | 0 | 5.3 | 5.5 | -.13 | 5.5 | -.13 | 5.6 | -.27 | | | | | | |
| 2 | | | | 2 | 3 | 9 | 1 | 45 | 1 | 3 | 2 | | | | | | | | | | | | | |
| 3 | | | | 4 | 7 | 36 | 4 | 166 | 4 | 1 | 1 | | | | | | | | | | | | | |
| 4 | | | | 3 | 5 | 91 | 10 | 385 | 10 | 18 | 10 | | | | | | | | | | | | | |
| 5 | | | | 18 | 31 | 291 | 34 | 1,240 | 32 | 56 | 32 | | | | | | | | | | | | | |
| 6 | | | | 22 | 37 | 244 | 28 | 1,055 | 28 | 55 | 31 | | | | | | | | | | | | | |
| 7 Very much | | | | 9 | 15 | 190 | 22 | 895 | 23 | 42 | 24 | | | | | | | | | | | | | |
| Total | | | | 59 | 100 | 867 | 100 | 3,822 | 100 | 175 | 100 | | | | | | | | | | | | | |
| 11. Which of the following have you done or do you plan to do before you graduate?^o | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Participate in an internship, co-op, field experience, student teaching, or clinical placement | | | | intern | | | | | | | | | | | | | | | | | | | | |
| Have not decided | | | | 3 | 5 | 60 | 7 | 296 | 8 | 15 | 9 | 0% | 8% * | -.56 | 7% * | -.55 | 10% * | -.63 | | | | | | |
| Do not plan to do | | | | 4 | 7 | 39 | 5 | 106 | 3 | 6 | 3 | | | | | | | | | | | | | |
| Plan to do | | | | 52 | 88 | 702 | 81 | 3,144 | 82 | 137 | 78 | | | | | | | | | | | | | |
| Done or in progress | | | | 0 | 0 | 65 | 8 | 285 | 7 | 17 | 10 | | | | | | | | | | | | | |
| Total | | | | 59 | 100 | 866 | 100 | 3,831 | 100 | 175 | 100 | | | | | | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | | |
|--|----------------------------|--|-------------------------|-------|---------------|-------|----------------|-------|---------|-------|--|------------|--------------------------|---------------|--------------------------|----------------|--------------------------|---------|--------------------------|
| | | | UND | | Plains Public | | Carnegie Class | | One UND | | Your first-year students compared with | | | | | | | | |
| Item wording or description | Variable name ^l | Values ^m | Response options | Count | % | Count | % | Count | % | Count | % | UND | | Plains Public | | Carnegie Class | | One UND | |
| | | | | | | | | | | | | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ |
| b. Hold a formal leadership role in a student organization or group | leader | (Means indicate the percentage who responded "Done or in progress.") | Have not decided | 19 | 34 | 203 | 23 | 1,045 | 27 | 45 | 26 | 11% | 15% | -.13 | 12% | -.03 | 17% | -.19 | |
| | | | Do not plan to do | 10 | 18 | 159 | 18 | 799 | 21 | 33 | 19 | | | | | | | | |
| | | | Plan to do | 21 | 38 | 374 | 43 | 1,537 | 40 | 67 | 38 | | | | | | | | |
| | | | Done or in progress | 6 | 11 | 130 | 15 | 444 | 12 | 30 | 17 | | | | | | | | |
| | | | Total | 56 | 100 | 866 | 100 | 3,825 | 100 | 175 | 100 | | | | | | | | |
| c. Participate in a learning community or some other formal program where groups of students take two or more classes together | learncom | (Means indicate the percentage who responded "Done or in progress.") | Have not decided | 19 | 33 | 221 | 25 | 1,232 | 32 | 30 | 17 | 22% | 17% | .14 | 15% | .18 | 33% | -.24 | |
| | | | Do not plan to do | 16 | 28 | 308 | 36 | 1,104 | 29 | 64 | 37 | | | | | | | | |
| | | | Plan to do | 10 | 17 | 193 | 22 | 893 | 23 | 22 | 13 | | | | | | | | |
| | | | Done or in progress | 13 | 22 | 145 | 17 | 589 | 15 | 58 | 33 | | | | | | | | |
| | | | Total | 58 | 100 | 867 | 100 | 3,818 | 100 | 174 | 100 | | | | | | | | |
| d. Participate in a study abroad program | abroad | (Means indicate the percentage who responded "Done or in progress.") | Have not decided | 20 | 34 | 253 | 29 | 1,169 | 31 | 51 | 29 | 2% | 3% | -.07 | 3% | -.06 | 3% | -.08 | |
| | | | Do not plan to do | 28 | 47 | 330 | 38 | 1,292 | 34 | 61 | 35 | | | | | | | | |
| | | | Plan to do | 10 | 17 | 260 | 30 | 1,254 | 33 | 59 | 34 | | | | | | | | |
| | | | Done or in progress | 1 | 2 | 24 | 3 | 98 | 3 | 5 | 3 | | | | | | | | |
| | | | Total | 59 | 100 | 867 | 100 | 3,813 | 100 | 176 | 100 | | | | | | | | |
| e. Work with a faculty member on a research project | research | (Means indicate the percentage who responded "Done or in progress.") | Have not decided | 30 | 51 | 322 | 37 | 1,422 | 37 | 67 | 39 | 0% | 7% * | -0.53 | 6% | -.48 | 7% * | -.55 | |
| | | | Do not plan to do | 9 | 15 | 144 | 17 | 549 | 14 | 27 | 16 | | | | | | | | |
| | | | Plan to do | 20 | 34 | 343 | 40 | 1,642 | 43 | 67 | 39 | | | | | | | | |
| | | | Done or in progress | 0 | 0 | 59 | 7 | 215 | 6 | 13 | 7 | | | | | | | | |
| | | | Total | 59 | 100 | 868 | 100 | 3,828 | 100 | 174 | 100 | | | | | | | | |
| f. Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.) | capstone | (Means indicate the percentage who responded "Done or in progress.") | Have not decided | 18 | 31 | 241 | 28 | 930 | 24 | 43 | 24 | 0% | 2% | -.28 | 1% | -.24 | 1% | -.15 | |
| | | | Do not plan to do | 0 | 0 | 68 | 8 | 230 | 6 | 13 | 7 | | | | | | | | |
| | | | Plan to do | 41 | 69 | 543 | 62 | 2,612 | 68 | 119 | 68 | | | | | | | | |
| | | | Done or in progress | 0 | 0 | 17 | 2 | 57 | 1 | 1 | 1 | | | | | | | | |
| | | | Total | 59 | 100 | 869 | 100 | 3,829 | 100 | 176 | 100 | | | | | | | | |

12. About how many of your courses at this institution have included a community-based project (service-learning)?

| servcourse | 1 | 2 | 3 | 4 | Total | Count | % | Count | % | Count | % | Count | % | Count | % | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ |
|------------|------|----|-----|-----|-------|-------|-----|-------|-----|------------|-----|-------|-----|-------|-----|------|--------------------------|------|--------------------------|------|--------------------------|
| 1 | None | 32 | 54 | 462 | 53 | 2,155 | 56 | 78 | 44 | 1.5 | 1.6 | -.10 | 1.5 | -.04 | 1.6 | -.23 | | | | | |
| 2 | Some | 25 | 42 | 337 | 39 | 1,402 | 37 | 85 | 48 | | | | | | | | | | | | |
| 3 | Most | 2 | 3 | 55 | 6 | 217 | 6 | 12 | 7 | | | | | | | | | | | | |
| 4 | All | 0 | 0 | 13 | 1 | 53 | 1 | 1 | 1 | | | | | | | | | | | | |
| Total | | 59 | 100 | 867 | 100 | 3,827 | 100 | 176 | 100 | | | | | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| Item wording or description | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|---|-----------|---|----------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|--------|--------------------------|--------|--------------------------|-------|--------------------------|--|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| | | | | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | |
| 13. Indicate the quality of your interactions with the following people at your institution. | | | | | | | | | | | | | | | | | | | |
| a. Students | | | | | | | | | | | | | | | | | | | |
| | QIstudent | 1 | Poor | 0 | 0 | 8 | 1 | 45 | 1 | 1 | 1 | 5.4 | 5.5 | -.14 | 5.5 | -.10 | 5.5 | -.12 | |
| | | 2 | | 0 | 0 | 10 | 1 | 57 | 1 | 1 | 1 | | | | | | | | |
| | | 3 | | 2 | 3 | 45 | 5 | 177 | 5 | 7 | 4 | | | | | | | | |
| | | 4 | | 11 | 19 | 78 | 9 | 429 | 11 | 18 | 10 | | | | | | | | |
| | | 5 | | 20 | 34 | 251 | 29 | 1,090 | 28 | 58 | 33 | | | | | | | | |
| | | 6 | | 16 | 27 | 259 | 30 | 1,068 | 28 | 55 | 31 | | | | | | | | |
| | | 7 | Excellent | 10 | 17 | 216 | 25 | 955 | 25 | 35 | 20 | | | | | | | | |
| | | — | Not applicable | 0 | 0 | 3 | 0 | 15 | 0 | 0 | 0 | | | | | | | | |
| | | | Total | 59 | 100 | 870 | 100 | 3,836 | 100 | 175 | 100 | | | | | | | | |
| b. Academic advisors | | | | | | | | | | | | | | | | | | | |
| | QIadvisor | 1 | Poor | 0 | 0 | 13 | 1 | 120 | 3 | 2 | 1 | 5.1 | 5.3 | -.17 | 5.2 | -.09 | 5.5 | -.27 | |
| | | 2 | | 2 | 3 | 39 | 4 | 149 | 4 | 8 | 5 | | | | | | | | |
| | | 3 | | 5 | 8 | 59 | 7 | 296 | 8 | 9 | 5 | | | | | | | | |
| | | 4 | | 18 | 31 | 110 | 13 | 551 | 14 | 19 | 11 | | | | | | | | |
| | | 5 | | 8 | 14 | 195 | 22 | 779 | 20 | 36 | 21 | | | | | | | | |
| | | 6 | | 14 | 24 | 213 | 25 | 797 | 21 | 47 | 27 | | | | | | | | |
| | | 7 | Excellent | 12 | 20 | 228 | 26 | 1,022 | 27 | 51 | 29 | | | | | | | | |
| | | — | Not applicable | 0 | 0 | 12 | 1 | 115 | 3 | 3 | 2 | | | | | | | | |
| | | | Total | 59 | 100 | 869 | 100 | 3,829 | 100 | 175 | 100 | | | | | | | | |
| c. Faculty | | | | | | | | | | | | | | | | | | | |
| | QIfaculty | 1 | Poor | 1 | 2 | 13 | 1 | 47 | 1 | 0 | 0 | 4.7 | 5.2 ** | -.39 | 5.2 ** | -.39 | 5.2 * | -.39 | |
| | | 2 | | 3 | 5 | 21 | 2 | 96 | 3 | 6 | 3 | | | | | | | | |
| | | 3 | | 6 | 11 | 58 | 7 | 263 | 7 | 8 | 5 | | | | | | | | |
| | | 4 | | 13 | 23 | 127 | 15 | 552 | 14 | 30 | 17 | | | | | | | | |
| | | 5 | | 17 | 30 | 237 | 27 | 1,104 | 29 | 57 | 33 | | | | | | | | |
| | | 6 | | 13 | 23 | 253 | 29 | 1,035 | 27 | 49 | 28 | | | | | | | | |
| | | 7 | Excellent | 4 | 7 | 154 | 18 | 699 | 18 | 24 | 14 | | | | | | | | |
| | | — | Not applicable | 0 | 0 | 6 | 1 | 28 | 1 | 1 | 1 | | | | | | | | |
| | | | Total | 57 | 100 | 869 | 100 | 3,824 | 100 | 175 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|--|------------|-------|----------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|--------------------------|---------------|--------------------------|----------------|--------------------------|---------|--|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| | | | | Count | % | Count | % | Count | % | Count | % | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | | |
| d. Student services staff (career services, student activities, housing, etc.) | QIstaff | 1 | Poor | 0 | 0 | 16 | 2 | 100 | 3 | 3 | 2 | 5.2 | 5.2 | .01 | 5.1 | .03 | 5.4 | -.14 | |
| | | 2 | | 1 | 2 | 34 | 4 | 126 | 3 | 5 | 3 | | | | | | | | |
| | | 3 | | 3 | 5 | 58 | 7 | 276 | 7 | 7 | 4 | | | | | | | | |
| | | 4 | | 13 | 22 | 111 | 13 | 547 | 14 | 20 | 11 | | | | | | | | |
| | | 5 | | 13 | 22 | 223 | 26 | 841 | 22 | 46 | 26 | | | | | | | | |
| | | 6 | | 18 | 31 | 190 | 22 | 843 | 22 | 43 | 25 | | | | | | | | |
| | | 7 | Excellent | 7 | 12 | 170 | 20 | 748 | 20 | 40 | 23 | | | | | | | | |
| | | — | Not applicable | 3 | 5 | 66 | 8 | 345 | 9 | 11 | 6 | | | | | | | | |
| Total | | 58 | 100 | 868 | 100 | 3,826 | 100 | 175 | 100 | | | | | | | | | | |
| e. Other administrative staff and offices (registrar, financial aid, etc.) | QIadmin | 1 | Poor | 0 | 0 | 22 | 3 | 109 | 3 | 4 | 2 | 4.9 | 5.1 | -.14 | 5.1 | -.09 | 5.2 | -.15 | |
| | | 2 | | 1 | 2 | 25 | 3 | 147 | 4 | 2 | 1 | | | | | | | | |
| | | 3 | | 6 | 10 | 58 | 7 | 261 | 7 | 10 | 6 | | | | | | | | |
| | | 4 | | 15 | 25 | 134 | 15 | 563 | 15 | 34 | 19 | | | | | | | | |
| | | 5 | | 13 | 22 | 202 | 23 | 877 | 23 | 36 | 20 | | | | | | | | |
| | | 6 | | 13 | 22 | 207 | 24 | 815 | 21 | 42 | 24 | | | | | | | | |
| | | 7 | Excellent | 7 | 12 | 163 | 19 | 727 | 19 | 29 | 16 | | | | | | | | |
| | | — | Not applicable | 4 | 7 | 56 | 6 | 333 | 9 | 19 | 11 | | | | | | | | |
| Total | | 59 | 100 | 867 | 100 | 3,832 | 100 | 176 | 100 | | | | | | | | | | |
| 14. How much does your institution emphasize the following? | | | | | | | | | | | | | | | | | | | |
| a. Spending significant amounts of time studying and on academic work | empstudy | 1 | Very little | 3 | 5 | 6 | 1 | 49 | 1 | 0 | 0 | 2.8 | 3.2 *** | -.54 | 3.2 *** | -.60 | 3.2 *** | -.60 | |
| | | 2 | Some | 18 | 31 | 134 | 15 | 515 | 13 | 26 | 15 | | | | | | | | |
| | | 3 | Quite a bit | 27 | 46 | 445 | 51 | 1,840 | 48 | 87 | 49 | | | | | | | | |
| | | 4 | Very much | 11 | 19 | 282 | 33 | 1,426 | 37 | 63 | 36 | | | | | | | | |
| | | Total | | 59 | 100 | 867 | 100 | 3,830 | 100 | 176 | 100 | | | | | | | | |
| b. Providing support to help students succeed academically | SEacademic | 1 | Very little | 2 | 3 | 18 | 2 | 105 | 3 | 3 | 2 | 2.8 | 3.1 ** | -.41 | 3.1 ** | -.42 | 3.1 ** | -.44 | |
| | | 2 | Some | 19 | 33 | 168 | 19 | 739 | 19 | 40 | 23 | | | | | | | | |
| | | 3 | Quite a bit | 28 | 48 | 412 | 48 | 1,686 | 44 | 67 | 38 | | | | | | | | |
| | | 4 | Very much | 9 | 16 | 269 | 31 | 1,301 | 34 | 65 | 37 | | | | | | | | |
| | | Total | | 58 | 100 | 867 | 100 | 3,831 | 100 | 175 | 100 | | | | | | | | |
| c. Using learning support services (tutoring services, writing center, etc.) | SElearnsup | 1 | Very little | 3 | 5 | 31 | 4 | 118 | 3 | 10 | 6 | 2.7 | 3.1 *** | -.55 | 3.2 *** | -.67 | 3.1 ** | -.50 | |
| | | 2 | Some | 21 | 36 | 144 | 17 | 590 | 15 | 34 | 19 | | | | | | | | |
| | | 3 | Quite a bit | 28 | 47 | 397 | 46 | 1,522 | 40 | 60 | 34 | | | | | | | | |
| | | 4 | Very much | 7 | 12 | 293 | 34 | 1,594 | 42 | 71 | 41 | | | | | | | | |
| | | Total | | 59 | 100 | 865 | 100 | 3,824 | 100 | 175 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | |
|---|----------------------------------|---------------------------|-------------------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--|---------------|--------------------------------|-------------|--------------------------------|--------------------------|--------------------------------|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | Your first-year students compared with | | | | | | |
| | | | | Count | % | Count | % | Count | % | Count | % | UND | Plains Public | Carnegie Class | One UND | Effect size ⁿ | Effect size ⁿ | Effect size ⁿ |
| <i>Item wording or description</i> | <i>Variable name^l</i> | <i>Values^m</i> | <i>Response options</i> | | | | | | | | | <i>Mean</i> | <i>Mean</i> | <i>Effect sizeⁿ</i> | <i>Mean</i> | <i>Effect sizeⁿ</i> | <i>Mean</i> | <i>Effect sizeⁿ</i> |
| d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.) | SEdiverse | 1 | Very little | 12 | 20 | 86 | 10 | 477 | 12 | 16 | 9 | 2.2 | 2.7 *** | -0.58 | 2.6 *** | -0.45 | 2.7 *** | -0.56 |
| | | 2 | Some | 26 | 44 | 250 | 29 | 1,265 | 33 | 59 | 34 | | | ▼ | | ▼ | | ▼ |
| | | 3 | Quite a bit | 18 | 31 | 339 | 39 | 1,285 | 34 | 61 | 35 | | | | | | | |
| | | 4 | Very much | 3 | 5 | 191 | 22 | 792 | 21 | 40 | 23 | | | | | | | |
| | | Total | | 59 | 100 | 866 | 100 | 3,819 | 100 | 176 | 100 | | | | | | | |
| e. Providing opportunities to be involved socially | SEsocial | 1 | Very little | 2 | 3 | 33 | 4 | 199 | 5 | 6 | 3 | 2.6 | 2.9 ** | -0.42 | 2.9 ** | -0.37 | 3.0 *** | -0.53 |
| | | 2 | Some | 21 | 36 | 209 | 24 | 938 | 25 | 38 | 22 | | | ▼ | | ▼ | | ▼ |
| | | 3 | Quite a bit | 34 | 58 | 395 | 46 | 1,633 | 43 | 80 | 45 | | | | | | | |
| | | 4 | Very much | 2 | 3 | 229 | 26 | 1,052 | 28 | 52 | 30 | | | | | | | |
| | | Total | | 59 | 100 | 866 | 100 | 3,822 | 100 | 176 | 100 | | | | | | | |
| f. Providing support for your overall well-being (recreation, health care, counseling, etc.) | SEwellness | 1 | Very little | 2 | 3 | 30 | 3 | 262 | 7 | 7 | 4 | 2.8 | 3.0 | -0.21 | 2.9 | -0.08 | 3.1 ** | -0.39 |
| | | 2 | Some | 14 | 24 | 192 | 22 | 948 | 25 | 32 | 18 | | | | | | | |
| | | 3 | Quite a bit | 36 | 61 | 409 | 47 | 1,599 | 42 | 68 | 39 | | | | | | | |
| | | 4 | Very much | 7 | 12 | 235 | 27 | 1,011 | 26 | 69 | 39 | | | | | | | ▼ |
| | | Total | | 59 | 100 | 866 | 100 | 3,820 | 100 | 176 | 100 | | | | | | | |
| g. Helping you manage your non-academic responsibilities (work, family, etc.) | SEnonacad | 1 | Very little | 15 | 25 | 187 | 22 | 951 | 25 | 37 | 21 | 2.1 | 2.3 | -0.18 | 2.2 | -0.12 | 2.3 | -0.19 |
| | | 2 | Some | 25 | 42 | 353 | 41 | 1,483 | 39 | 76 | 43 | | | | | | | |
| | | 3 | Quite a bit | 17 | 29 | 238 | 27 | 988 | 26 | 41 | 23 | | | | | | | |
| | | 4 | Very much | 2 | 3 | 90 | 10 | 392 | 10 | 22 | 13 | | | | | | | |
| | | Total | | 59 | 100 | 868 | 100 | 3,814 | 100 | 176 | 100 | | | | | | | |
| h. Attending campus activities and events (performing arts, athletic events, etc.) | SEactivities | 1 | Very little | 4 | 7 | 55 | 6 | 314 | 8 | 11 | 6 | 2.7 | 2.8 | -0.09 | 2.8 | -0.05 | 2.9 | -0.25 |
| | | 2 | Some | 16 | 27 | 253 | 29 | 1,087 | 28 | 37 | 21 | | | | | | | |
| | | 3 | Quite a bit | 31 | 53 | 365 | 42 | 1,561 | 41 | 78 | 45 | | | | | | | |
| | | 4 | Very much | 8 | 14 | 192 | 22 | 859 | 22 | 48 | 28 | | | | | | | |
| | | Total | | 59 | 100 | 865 | 100 | 3,821 | 100 | 174 | 100 | | | | | | | |
| i. Attending events that address important social, economic, or political issues | SEevents | 1 | Very little | 12 | 20 | 124 | 14 | 696 | 18 | 22 | 13 | 2.1 | 2.4 ** | -0.33 | 2.4 * | -0.24 | 2.5 ** | -0.41 |
| | | 2 | Some | 29 | 49 | 348 | 40 | 1,538 | 40 | 70 | 40 | | | | | | | |
| | | 3 | Quite a bit | 16 | 27 | 298 | 34 | 1,107 | 29 | 56 | 32 | | | | | | | |
| | | 4 | Very much | 2 | 3 | 97 | 11 | 477 | 12 | 26 | 15 | | | ▼ | | ▼ | | ▼ |
| | | Total | | 59 | 100 | 867 | 100 | 3,818 | 100 | 174 | 100 | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|---|---|---------------------|------------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|------|--------------------------|------|--------------------------|------|--------------------------|--|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| | | | | | | | | | | | | Mean | | Mean | | Mean | | Mean | |
| Item wording or description | Variable name ^l | Values ^m | Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | |
| 15. About how many hours do you spend in a typical 7-day week doing the following? | | | | | | | | | | | | | | | | | | | |
| a. Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities) | tmprephrs | 0 | 0 hrs | 0 | 0 | 3 | 0 | 10 | 0 | 0 | 0 | 16.4 | 16.9 | -.07 | 17.2 | -.09 | 17.8 | -.17 | |
| | (Recoded version of tmprep created by NSSE. Values are estimated number of hours per week.) | 3 | 1-5 hrs | 6 | 10 | 60 | 7 | 275 | 7 | 13 | 7 | | | | | | | | |
| | | 8 | 6-10 hrs | 7 | 12 | 159 | 18 | 625 | 16 | 24 | 14 | | | | | | | | |
| | | 13 | 11-15 hrs | 16 | 27 | 168 | 19 | 814 | 21 | 33 | 19 | | | | | | | | |
| | | 18 | 16-20 hrs | 11 | 19 | 202 | 23 | 863 | 23 | 45 | 26 | | | | | | | | |
| | | 23 | 21-25 hrs | 12 | 20 | 128 | 15 | 566 | 15 | 27 | 15 | | | | | | | | |
| | | 28 | 26-30 hrs | 4 | 7 | 78 | 9 | 304 | 8 | 12 | 7 | | | | | | | | |
| | | 33 | More than 30 hrs | 3 | 5 | 70 | 8 | 367 | 10 | 21 | 12 | | | | | | | | |
| | | | Total | 59 | 100 | 868 | 100 | 3,824 | 100 | 175 | 100 | | | | | | | | |
| b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.) | tmcocurrhrs | 0 | 0 hrs | 16 | 27 | 192 | 22 | 1,027 | 27 | 43 | 25 | 5.9 | 6.3 | -.05 | 5.6 | .05 | 5.7 | .03 | |
| | (Recoded version of tmcocurr created by NSSE. Values are estimated number of hours per week.) | 3 | 1-5 hrs | 22 | 37 | 318 | 37 | 1,408 | 37 | 65 | 37 | | | | | | | | |
| | | 8 | 6-10 hrs | 12 | 20 | 178 | 21 | 704 | 18 | 37 | 21 | | | | | | | | |
| | | 13 | 11-15 hrs | 4 | 7 | 92 | 11 | 366 | 10 | 14 | 8 | | | | | | | | |
| | | 18 | 16-20 hrs | 2 | 3 | 38 | 4 | 172 | 5 | 9 | 5 | | | | | | | | |
| | | 23 | 21-25 hrs | 0 | 0 | 30 | 3 | 78 | 2 | 3 | 2 | | | | | | | | |
| | | 28 | 26-30 hrs | 0 | 0 | 9 | 1 | 24 | 1 | 1 | 1 | | | | | | | | |
| | | 33 | More than 30 hrs | 3 | 5 | 6 | 1 | 39 | 1 | 2 | 1 | | | | | | | | |
| | | | Total | 59 | 100 | 863 | 100 | 3,818 | 100 | 174 | 100 | | | | | | | | |
| c. Working for pay on campus | tmworkonhrs | 0 | 0 hrs | 47 | 80 | 670 | 77 | 2,985 | 78 | 133 | 76 | 2.4 | 2.7 | -.06 | 2.3 | .01 | 3.1 | -.12 | |
| | (Recoded version of tmworkon created by NSSE. Values are estimated number of hours per week.) | 3 | 1-5 hrs | 2 | 3 | 28 | 3 | 180 | 5 | 6 | 3 | | | | | | | | |
| | | 8 | 6-10 hrs | 2 | 3 | 59 | 7 | 291 | 8 | 9 | 5 | | | | | | | | |
| | | 13 | 11-15 hrs | 5 | 8 | 58 | 7 | 184 | 5 | 15 | 9 | | | | | | | | |
| | | 18 | 16-20 hrs | 3 | 5 | 30 | 3 | 133 | 3 | 9 | 5 | | | | | | | | |
| | | 23 | 21-25 hrs | 0 | 0 | 16 | 2 | 34 | 1 | 3 | 2 | | | | | | | | |
| | | 28 | 26-30 hrs | 0 | 0 | 5 | 1 | 8 | 0 | 1 | 1 | | | | | | | | |
| | | 33 | More than 30 hrs | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | | | | | | | | |
| | | | Total | 59 | 100 | 866 | 100 | 3,822 | 100 | 176 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|--|--|---------------------|---------------------------------------|-------------------------|-----|---------------|-------|----------------|-----|---------|-----|--|------|--------------------------|------|--------------------------|------|--------------------------|--|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| | | | | Count | | Count | | Count | | Count | | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | |
| Item wording or description | Variable name ^l | Values ^m | Response options | % | % | % | % | % | % | % | % | Your first-year students compared with | | | | | | | |
| d. Working for pay off campus | tmworkoffhrs | 0 | 0 hrs | 42 | 71 | 630 | 73 | 2,999 | 78 | 132 | 75 | 4.8 | 4.1 | .08 | 3.3 | .20 | 3.2 | .21 | |
| | (Recoded version of tmworkoff created by NSSE. Values are estimated number of hours per week.) | 3 | 1-5 hrs | 1 | 2 | 38 | 4 | 129 | 3 | 9 | 5 | | | | | | | | |
| | 8 | 6-10 hrs | 2 | 3 | 43 | 5 | 143 | 4 | 10 | 6 | | | | | | | | | |
| | 13 | 11-15 hrs | 7 | 12 | 48 | 6 | 163 | 4 | 10 | 6 | | | | | | | | | |
| | 18 | 16-20 hrs | 3 | 5 | 47 | 5 | 179 | 5 | 10 | 6 | | | | | | | | | |
| | 23 | 21-25 hrs | 1 | 2 | 30 | 3 | 97 | 3 | 1 | 1 | | | | | | | | | |
| | 28 | 26-30 hrs | 1 | 2 | 14 | 2 | 46 | 1 | 1 | 1 | | | | | | | | | |
| | 33 | More than 30 hrs | 2 | 3 | 16 | 2 | 67 | 2 | 3 | 2 | | | | | | | | | |
| Total | | | | 59 | 100 | 866 | 100 | 3,823 | 100 | 176 | 100 | | | | | | | | |
| Estimated number of hours working for pay | tmworkhrs | | (Continuous variable created by NSSE) | | | | | | | | | 7.2 | 6.8 | .03 | 5.6 | .17 | 6.3 | .09 | |
| e. Doing community service or volunteer work | tmservicehrs | 0 | 0 hrs | 36 | 61 | 518 | 60 | 2,452 | 64 | 96 | 55 | 1.6 | 2.3 | -.16 | 1.9 | -.07 | 2.0 | -.10 | |
| | (Recoded version of tmservice created by NSSE. Values are estimated number of hours per week.) | 3 | 1-5 hrs | 19 | 32 | 254 | 29 | 1,050 | 27 | 69 | 39 | | | | | | | | |
| | 8 | 6-10 hrs | 3 | 5 | 44 | 5 | 172 | 4 | 5 | 3 | | | | | | | | | |
| | 13 | 11-15 hrs | 1 | 2 | 24 | 3 | 68 | 2 | 3 | 2 | | | | | | | | | |
| | 18 | 16-20 hrs | 0 | 0 | 9 | 1 | 39 | 1 | 0 | 0 | | | | | | | | | |
| | 23 | 21-25 hrs | 0 | 0 | 10 | 1 | 25 | 1 | 1 | 1 | | | | | | | | | |
| | 28 | 26-30 hrs | 0 | 0 | 3 | 0 | 7 | 0 | 0 | 0 | | | | | | | | | |
| | 33 | More than 30 hrs | 0 | 0 | 3 | 0 | 10 | 0 | 1 | 1 | | | | | | | | | |
| Total | | | | 59 | 100 | 865 | 100 | 3,823 | 100 | 175 | 100 | | | | | | | | |
| f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.) | tmrelaxhrs | 0 | 0 hrs | 1 | 2 | 16 | 2 | 56 | 1 | 2 | 1 | 13.8 | 13.2 | .06 | 12.7 | .13 | 13.5 | .03 | |
| | (Recoded version of tmrelax created by NSSE. Values are estimated number of hours per week.) | 3 | 1-5 hrs | 8 | 14 | 147 | 17 | 683 | 18 | 24 | 14 | | | | | | | | |
| | 8 | 6-10 hrs | 13 | 22 | 215 | 25 | 1,061 | 28 | 56 | 32 | | | | | | | | | |
| | 13 | 11-15 hrs | 16 | 27 | 206 | 24 | 825 | 22 | 38 | 22 | | | | | | | | | |
| | 18 | 16-20 hrs | 11 | 19 | 140 | 16 | 579 | 15 | 23 | 13 | | | | | | | | | |
| | 23 | 21-25 hrs | 4 | 7 | 50 | 6 | 299 | 8 | 10 | 6 | | | | | | | | | |
| | 28 | 26-30 hrs | 2 | 3 | 27 | 3 | 102 | 3 | 4 | 2 | | | | | | | | | |
| | 33 | More than 30 hrs | 4 | 7 | 68 | 8 | 215 | 6 | 18 | 10 | | | | | | | | | |
| Total | | | | 59 | 100 | 869 | 100 | 3,820 | 100 | 175 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | | | | |
|--|----------------------------|---------------------|------------------|---|----|---------------|-----|----------------|-------|---------|-----|--------------------------------------|------|--------------------------|------|--------------------------|------|--------------------------|-----|------|-----|-----|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | | | | |
| | | | | | | | | | | | | Mean | | Effect size ⁿ | | Mean | | Effect size ⁿ | | | | |
| Item wording or description | Variable name ^l | Values ^m | Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | | | | |
| g. Providing care for dependents (children, parents, etc.) | tmcarehrs | 0 | 0 hrs | 54 | 93 | 728 | 84 | 3,248 | 85 | 148 | 85 | .8 | 1.7 | -.17 | 1.3 | -.12 | 1.1 | -.08 | | | | |
| | | 3 | 1-5 hrs | 2 | 3 | 61 | 7 | 272 | 7 | 14 | 8 | | | | | | | | | | | |
| | | 8 | 6-10 hrs | 0 | 0 | 18 | 2 | 120 | 3 | 6 | 3 | | | | | | | | | | | |
| | | 13 | 11-15 hrs | 1 | 2 | 26 | 3 | 78 | 2 | 2 | 1 | | | | | | | | | | | |
| | | 18 | 16-20 hrs | 0 | 0 | 16 | 2 | 51 | 1 | 3 | 2 | | | | | | | | | | | |
| | | 23 | 21-25 hrs | 0 | 0 | 7 | 1 | 21 | 1 | 1 | 1 | | | | | | | | | | | |
| | | 28 | 26-30 hrs | 1 | 2 | 0 | 0 | 6 | 0 | 0 | 0 | | | | | | | | | | | |
| | | 33 | More than 30 hrs | 0 | 0 | 11 | 1 | 19 | 0 | 0 | 0 | | | | | | | | | | | |
| | | Total | | | 58 | 100 | 867 | 100 | 3,815 | 100 | 174 | 100 | | | | | | | | | | |
| h. Commuting to campus (driving, walking, etc.) | tmcommutehrs | 0 | 0 hrs | 12 | 20 | 319 | 37 | 1,745 | 46 | 69 | 39 | 4.3 | 3.8 | .10 | 3.3 | .20 | 3.8 | .09 | | | | |
| | | 3 | 1-5 hrs | 35 | 59 | 373 | 43 | 1,381 | 36 | 73 | 42 | | | | | | | | | | | |
| | | 8 | 6-10 hrs | 6 | 10 | 101 | 12 | 425 | 11 | 20 | 11 | | | | | | | | | | | |
| | | 13 | 11-15 hrs | 4 | 7 | 36 | 4 | 139 | 4 | 5 | 3 | | | | | | | | | | | |
| | | 18 | 16-20 hrs | 1 | 2 | 15 | 2 | 64 | 2 | 2 | 1 | | | | | | | | | | | |
| | | 23 | 21-25 hrs | 0 | 0 | 14 | 2 | 31 | 1 | 0 | 0 | | | | | | | | | | | |
| | | 28 | 26-30 hrs | 0 | 0 | 3 | 0 | 16 | 0 | 2 | 1 | | | | | | | | | | | |
| | | 33 | More than 30 hrs | 1 | 2 | 7 | 1 | 30 | 1 | 4 | 2 | | | | | | | | | | | |
| | | Total | | | 59 | 100 | 868 | 100 | 3,831 | 100 | 175 | 100 | | | | | | | | | | |
| 16. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading? | | | | | | | | | | | | | | | | | | | | | | |
| | reading | 1 | Very little | 14 | 24 | 230 | 26 | 899 | 24 | 47 | 27 | 2.2 | 2.2 | .04 | 2.2 | .01 | 2.0 | .19 | | | | |
| | | 2 | Some | 26 | 44 | 378 | 44 | 1,789 | 47 | 91 | 52 | | | | | | | | | | | |
| | | 3 | About half | 14 | 24 | 163 | 19 | 729 | 19 | 25 | 14 | | | | | | | | | | | |
| | | 4 | Most | 3 | 5 | 81 | 9 | 305 | 8 | 9 | 5 | | | | | | | | | | | |
| | | 5 | Almost all | 2 | 3 | 16 | 2 | 100 | 3 | 3 | 2 | | | | | | | | | | | |
| | | | Total | | | 59 | 100 | 868 | 100 | 3,822 | 100 | | | | | | | | 175 | 100 | | |
| | tmreadinghrs | | | | | | | | | | | | | | | 5.3 | 5.4 | -.02 | 5.5 | -.05 | 5.2 | .01 |
| | | | | <i>(Continuous variable created by NSSE. Calculated as a proportion of tmprephrs based on reading, where Very little=.10; Some=.25; About half=.50; Most=.75; Almost all=.90)</i> | | | | | | | | | | | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| Item wording or description | Variable name ^l | Values ^m | Response options | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | |
|-----------------------------|--|---------------------|-----------------------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--|---------------|----------------|---------|--------------------------|--------------------------|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | Your first-year students compared with | | | | | |
| | | | | Count | % | Count | % | Count | % | Count | % | UND | Plains Public | Carnegie Class | One UND | Effect size ⁿ | Effect size ⁿ |
| | tmreadinghrscol | 1 | 0 hrs | 0 | 0 | 3 | 0 | 10 | 0 | 0 | 0 | | | | | | |
| | (Collapsed version of tmreadinghrs created by NSSE.) | 2 | More than zero, up to 5 hrs | 32 | 54 | 539 | 62 | 2,271 | 60 | 113 | 65 | | | | | | |
| | | 3 | More than 5, up to 10 hrs | 20 | 34 | 217 | 25 | 1,060 | 28 | 44 | 25 | | | | | | |
| | | 4 | More than 10, up to 15 hrs | 5 | 8 | 50 | 6 | 241 | 6 | 7 | 4 | | | | | | |
| | | 5 | More than 15, up to 20 hrs | 1 | 2 | 32 | 4 | 124 | 3 | 5 | 3 | | | | | | |
| | | 6 | More than 20, up to 25 hrs | 1 | 2 | 23 | 3 | 79 | 2 | 2 | 1 | | | | | | |
| | | 7 | More than 25 hrs | 0 | 0 | 3 | 0 | 25 | 1 | 3 | 2 | | | | | | |
| | | | Total | 59 | 100 | 867 | 100 | 3,810 | 100 | 174 | 100 | | | | | | |

17. How much has your experience at this institution contributed to your knowledge, skills, and personal development in the following areas?

| | | | | | | | | | | | | | | | | | | |
|--|-----------|---|-------------|----|-----|-----|-----|-------|-----|-----|-----|------------|-----|------|-----|------|-----|------|
| a. Writing clearly and effectively | pgwrite | 1 | Very little | 9 | 16 | 123 | 14 | 500 | 13 | 27 | 15 | 2.4 | 2.4 | -.05 | 2.5 | -.14 | 2.3 | .07 |
| | | 2 | Some | 21 | 36 | 341 | 39 | 1,373 | 36 | 78 | 45 | | | | | | | |
| | | 3 | Quite a bit | 24 | 41 | 301 | 35 | 1,389 | 36 | 54 | 31 | | | | | | | |
| | | 4 | Very much | 4 | 7 | 103 | 12 | 555 | 15 | 16 | 9 | | | | | | | |
| | | | Total | 58 | 100 | 868 | 100 | 3,817 | 100 | 175 | 100 | | | | | | | |
| b. Speaking clearly and effectively | pgspeak | 1 | Very little | 11 | 19 | 132 | 15 | 656 | 17 | 32 | 18 | 2.3 | 2.4 | -.16 | 2.4 | -.13 | 2.3 | -.07 |
| | | 2 | Some | 25 | 42 | 340 | 39 | 1,477 | 39 | 71 | 41 | | | | | | | |
| | | 3 | Quite a bit | 18 | 31 | 288 | 33 | 1,179 | 31 | 51 | 29 | | | | | | | |
| | | 4 | Very much | 5 | 8 | 108 | 12 | 513 | 13 | 21 | 12 | | | | | | | |
| | | | Total | 59 | 100 | 868 | 100 | 3,825 | 100 | 175 | 100 | | | | | | | |
| c. Thinking critically and analytically | pgthink | 1 | Very little | 3 | 5 | 28 | 3 | 156 | 4 | 7 | 4 | 3.0 | 3.1 | -.14 | 3.1 | -.11 | 3.1 | -.18 |
| | | 2 | Some | 14 | 24 | 155 | 18 | 758 | 20 | 29 | 17 | | | | | | | |
| | | 3 | Quite a bit | 24 | 41 | 408 | 47 | 1,625 | 43 | 75 | 43 | | | | | | | |
| | | 4 | Very much | 18 | 31 | 278 | 32 | 1,282 | 34 | 64 | 37 | | | | | | | |
| | | | Total | 59 | 100 | 869 | 100 | 3,821 | 100 | 175 | 100 | | | | | | | |
| d. Analyzing numerical and statistical information | pganalyze | 1 | Very little | 2 | 3 | 32 | 4 | 180 | 5 | 2 | 1 | 3.0 | 3.1 | -.11 | 3.0 | -.04 | 3.1 | -.07 |
| | | 2 | Some | 15 | 25 | 158 | 18 | 811 | 21 | 44 | 25 | | | | | | | |
| | | 3 | Quite a bit | 23 | 39 | 377 | 44 | 1,543 | 40 | 71 | 41 | | | | | | | |
| | | 4 | Very much | 19 | 32 | 299 | 35 | 1,293 | 34 | 58 | 33 | | | | | | | |
| | | | Total | 59 | 100 | 866 | 100 | 3,827 | 100 | 175 | 100 | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|---|-------------|-------|-------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|--------------------------|---------------|--------------------------|----------------|--------------------------|---------|--------------------------|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| | | | | Count | % | Count | % | Count | % | Count | % | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ |
| e. Acquiring job- or work-related knowledge and skills | pgwork | 1 | Very little | 4 | 7 | 95 | 11 | 475 | 12 | 19 | 11 | 2.7 | 2.6 | .05 | 2.7 | .01 | 2.6 | .07 | |
| | | 2 | Some | 22 | 37 | 300 | 35 | 1,169 | 31 | 60 | 34 | | | | | | | | |
| | | 3 | Quite a bit | 23 | 39 | 313 | 36 | 1,394 | 36 | 68 | 39 | | | | | | | | |
| | | 4 | Very much | 10 | 17 | 160 | 18 | 788 | 21 | 28 | 16 | | | | | | | | |
| | | Total | | 59 | 100 | 868 | 100 | 3,826 | 100 | 175 | 100 | | | | | | | | |
| f. Working effectively with others | pgothers | 1 | Very little | 2 | 3 | 54 | 6 | 237 | 6 | 12 | 7 | 2.7 | 2.8 | -.07 | 2.8 | -.12 | 2.9 | -.13 | |
| | | 2 | Some | 18 | 31 | 250 | 29 | 1,025 | 27 | 46 | 26 | | | | | | | | |
| | | 3 | Quite a bit | 32 | 54 | 373 | 43 | 1,635 | 43 | 72 | 41 | | | | | | | | |
| | | 4 | Very much | 7 | 12 | 190 | 22 | 924 | 24 | 45 | 26 | | | | | | | | |
| | | Total | | 59 | 100 | 867 | 100 | 3,821 | 100 | 175 | 100 | | | | | | | | |
| g. Developing or clarifying a personal code of values and ethics | pgvalues | 1 | Very little | 10 | 17 | 139 | 16 | 619 | 16 | 31 | 18 | 2.4 | 2.5 | -.14 | 2.6 | -.19 | 2.5 | -.12 | |
| | | 2 | Some | 23 | 39 | 287 | 33 | 1,171 | 31 | 60 | 34 | | | | | | | | |
| | | 3 | Quite a bit | 20 | 34 | 306 | 35 | 1,316 | 34 | 51 | 29 | | | | | | | | |
| | | 4 | Very much | 6 | 10 | 136 | 16 | 720 | 19 | 33 | 19 | | | | | | | | |
| | | Total | | 59 | 100 | 868 | 100 | 3,826 | 100 | 175 | 100 | | | | | | | | |
| h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.) | pgdiverse | 1 | Very little | 13 | 22 | 115 | 13 | 637 | 17 | 27 | 15 | 2.3 | 2.6 * | ▽ | -.30 | 2.5 | -.22 | 2.5 | -.27 |
| | | 2 | Some | 21 | 36 | 298 | 34 | 1,296 | 34 | 60 | 34 | | | | | | | | |
| | | 3 | Quite a bit | 20 | 34 | 301 | 35 | 1,221 | 32 | 53 | 30 | | | | | | | | |
| | | 4 | Very much | 5 | 8 | 150 | 17 | 667 | 17 | 35 | 20 | | | | | | | | |
| | | Total | | 59 | 100 | 864 | 100 | 3,821 | 100 | 175 | 100 | | | | | | | | |
| i. Solving complex real-world problems | pgprobsolve | 1 | Very little | 7 | 12 | 73 | 8 | 395 | 10 | 24 | 14 | 2.5 | 2.7 | -.19 | 2.7 | -.19 | 2.5 | .00 | |
| | | 2 | Some | 21 | 36 | 296 | 34 | 1,197 | 31 | 64 | 37 | | | | | | | | |
| | | 3 | Quite a bit | 24 | 41 | 321 | 37 | 1,402 | 37 | 56 | 32 | | | | | | | | |
| | | 4 | Very much | 7 | 12 | 175 | 20 | 834 | 22 | 30 | 17 | | | | | | | | |
| | | Total | | 59 | 100 | 865 | 100 | 3,828 | 100 | 174 | 100 | | | | | | | | |
| j. Being an informed and active citizen | pgcitizen | 1 | Very little | 12 | 20 | 142 | 16 | 718 | 19 | 34 | 20 | 2.3 | 2.4 | -.17 | 2.4 | -.15 | 2.3 | -.09 | |
| | | 2 | Some | 24 | 41 | 357 | 41 | 1,414 | 37 | 73 | 42 | | | | | | | | |
| | | 3 | Quite a bit | 19 | 32 | 240 | 28 | 1,134 | 30 | 42 | 24 | | | | | | | | |
| | | 4 | Very much | 4 | 7 | 128 | 15 | 559 | 15 | 25 | 14 | | | | | | | | |
| | | Total | | 59 | 100 | 867 | 100 | 3,825 | 100 | 174 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

First-Year Students^a in Aero and Engineering

| Item wording or description | Variable name ^l | Values ^m | Response options | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | | | |
|---|----------------------------|---------------------|--|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--|--------------------|--------------------------|---------------------|--------------------------|--------------|--------------------------|---|--------|------|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | Your first-year students compared with | | | | | | | | | |
| | | | | Count | % | Count | % | Count | % | Count | % | UND Mean | Plains Public Mean | Effect size ⁿ | Carnegie Class Mean | Effect size ⁿ | One UND Mean | Effect size ⁿ | | | |
| 18. How would you evaluate your entire educational experience at this institution? | | | | | | | | | | | | | | | | | | | | | |
| | evalexp | 1 | Poor | 1 | 2 | 19 | 2 | 80 | 2 | 2 | 1 | 2.9 | ▼ | 3.1 ** | -.38 | ▼ | 3.2 ** | -.39 | ▼ | 3.2 ** | -.43 |
| | | 2 | Fair | 13 | 22 | 101 | 12 | 509 | 13 | 18 | 10 | | | | | | | | | | |
| | | 3 | Good | 37 | 63 | 483 | 55 | 1,928 | 50 | 106 | 60 | | | | | | | | | | |
| | | 4 | Excellent | 8 | 14 | 268 | 31 | 1,312 | 34 | 50 | 28 | | | | | | | | | | |
| | | Total | | 59 | 100 | 871 | 100 | 3,829 | 100 | 176 | 100 | | | | | | | | | | |
| 19. If you could start over again, would you go to the same institution you are now attending? | | | | | | | | | | | | | | | | | | | | | |
| | sameinst | 1 | Definitely no | 2 | 3 | 18 | 2 | 109 | 3 | 1 | 1 | 3.2 | 3.3 | -.16 | 3.2 | -.10 | 3.2 | -.13 | | | |
| | | 2 | Probably no | 3 | 5 | 82 | 9 | 444 | 12 | 17 | 10 | | | | | | | | | | |
| | | 3 | Probably yes | 38 | 64 | 419 | 48 | 1,762 | 46 | 97 | 55 | | | | | | | | | | |
| | | 4 | Definitely yes | 16 | 27 | 352 | 40 | 1,525 | 40 | 61 | 35 | | | | | | | | | | |
| | | Total | | 59 | 100 | 871 | 100 | 3,840 | 100 | 176 | 100 | | | | | | | | | | |
| 20. Do you intend to return to this institution next year?^f | | | | | | | | | | | | | | | | | | | | | |
| | returnexp | | No | 1 | 2 | 25 | 3 | 116 | 3 | 3 | 2 | 93% | 92% | .06 | 91% | .08 | 95% | -.10 | | | |
| | | | Yes | 55 | 93 | 797 | 92 | 3,495 | 91 | 167 | 95 | | | | | | | | | | |
| | | | Not sure | 3 | 5 | 47 | 5 | 222 | 6 | 5 | 3 | | | | | | | | | | |
| | | | Total | 59 | 100 | 869 | 100 | 3,833 | 100 | 175 | 100 | | | | | | | | | | |
| | | | (Means indicate the percentage who responded "Yes.") | | | | | | | | | | | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|--|--|---------------------|------------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|---------|--------------------------|---------|--------------------------|---------|--------------------------|--|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| Item wording or description | Variable name ^l | Values ^m | Response options | Count | | Count | | Count | | Count | | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | |
| | | | | % | % | % | % | % | % | | | | | | | | | | |
| 1. During the current school year, about how often have you done the following? | | | | | | | | | | | | | | | | | | | |
| a. Asked questions or contributed to course discussions in other ways | askquest | 1 | Never | 9 | 6 | 60 | 4 | 177 | 4 | 12 | 4 | 2.6 | 2.8 * | -.20 | 2.8 * | -.19 | 2.7 | -.11 | |
| | | 2 | Sometimes | 62 | 42 | 476 | 36 | 1,691 | 38 | 118 | 40 | | | | | | | | |
| | | 3 | Often | 48 | 33 | 462 | 34 | 1,466 | 33 | 100 | 34 | | | | | | | | |
| | | 4 | Very often | 27 | 18 | 342 | 26 | 1,156 | 26 | 62 | 21 | | | | | | | | |
| | | | Total | 146 | 100 | 1,340 | 100 | 4,490 | 100 | 292 | 100 | | | | | | | | |
| b. Prepared two or more drafts of a paper or assignment before turning it in | drafts | 1 | Never | 23 | 15 | 341 | 25 | 1,282 | 29 | 81 | 28 | 2.4 | 2.2 ** | .25 | 2.2 *** | .29 | 2.2 ** | .27 | |
| | | 2 | Sometimes | 61 | 41 | 520 | 39 | 1,694 | 38 | 110 | 38 | | | | | | | | |
| | | 3 | Often | 40 | 27 | 331 | 25 | 1,004 | 22 | 65 | 22 | | | | | | | | |
| | | 4 | Very often | 25 | 17 | 150 | 11 | 512 | 11 | 35 | 12 | | | | | | | | |
| | | | Total | 149 | 100 | 1,342 | 100 | 4,492 | 100 | 291 | 100 | | | | | | | | |
| c. Come to class without completing readings or assignments | unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i> | 1 | Very often | 5 | 3 | 75 | 6 | 298 | 7 | 19 | 6 | 3.1 | 3.0 | .13 | 2.9 * | .20 | 2.9 * | .24 | |
| | | 2 | Often | 19 | 13 | 220 | 16 | 761 | 17 | 60 | 20 | | | | | | | | |
| | | 3 | Sometimes | 83 | 56 | 705 | 52 | 2,431 | 54 | 147 | 50 | | | | | | | | |
| | | 4 | Never | 42 | 28 | 345 | 26 | 1,016 | 23 | 67 | 23 | | | | | | | | |
| | | | Total | 149 | 100 | 1,345 | 100 | 4,506 | 100 | 293 | 100 | | | | | | | | |
| d. Attended an art exhibit, play, or other arts performance (dance, music, etc.) | attendart | 1 | Never | 90 | 60 | 718 | 54 | 2,208 | 49 | 136 | 46 | 1.5 | 1.6 | -.11 | 1.7 * | -.20 | 1.7 * | -.26 | |
| | | 2 | Sometimes | 43 | 29 | 465 | 35 | 1,651 | 37 | 111 | 38 | | | | | | | | |
| | | 3 | Often | 12 | 8 | 115 | 9 | 449 | 10 | 32 | 11 | | | | | | | | |
| | | 4 | Very often | 4 | 3 | 42 | 3 | 188 | 4 | 14 | 5 | | | | | | | | |
| | | | Total | 149 | 100 | 1,340 | 100 | 4,496 | 100 | 293 | 100 | | | | | | | | |
| e. Asked another student to help you understand course material | CLaskhelp | 1 | Never | 40 | 27 | 62 | 5 | 256 | 6 | 14 | 5 | 2.3 | 2.8 *** | -.59 | 2.9 *** | -.64 | 2.9 *** | -.64 | |
| | | 2 | Sometimes | 41 | 28 | 456 | 34 | 1,322 | 29 | 91 | 31 | | | | | | | | |
| | | 3 | Often | 48 | 32 | 470 | 35 | 1,636 | 36 | 95 | 32 | | | | | | | | |
| | | 4 | Very often | 19 | 13 | 358 | 27 | 1,295 | 29 | 93 | 32 | | | | | | | | |
| | | | Total | 148 | 100 | 1,346 | 100 | 4,509 | 100 | 293 | 100 | | | | | | | | |
| f. Explained course material to one or more students | CLexplain | 1 | Never | 28 | 19 | 20 | 1 | 86 | 2 | 3 | 1 | 2.4 | 3.0 *** | -.76 | 3.1 *** | -.81 | 3.0 *** | -.72 | |
| | | 2 | Sometimes | 54 | 36 | 343 | 26 | 1,068 | 24 | 79 | 27 | | | | | | | | |
| | | 3 | Often | 44 | 30 | 568 | 42 | 1,863 | 41 | 122 | 42 | | | | | | | | |
| | | 4 | Very often | 22 | 15 | 413 | 31 | 1,488 | 33 | 89 | 30 | | | | | | | | |
| | | | Total | 148 | 100 | 1,344 | 100 | 4,505 | 100 | 293 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| Item wording or description | | | | Variable name ^l | | | | Frequency Distributions | | | | Statistical Comparisons ^k | | | | | | | | | | | | |
|---|--|--|--|----------------------------|------------|-----|-----|-------------------------|-------|--------------------------|------|--------------------------------------|------|--------------------------|----|----------------------------|---------------|----------------|---------|---------|---------|-------|---------|-------|
| | | | | | | | | UND | | Plains Public | | Carnegie Class | | One UND | | Your seniors compared with | | | | | | | | |
| | | | | | | | | Count | % | Count | % | Count | % | Count | % | UND | Plains Public | Carnegie Class | | One UND | | | | |
| | | | | | | | | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | | | | | | | | | | |
| g. Prepared for exams by discussing or working through course material with other students | | | | CLstudy | | | | 1 | Never | 53 | 36 | 101 | 8 | 415 | 9 | 21 | 7 | 2.2 | 2.9 *** | -0.69 | 2.9 *** | -0.67 | 2.9 *** | -0.69 |
| | | | | 2 | Sometimes | 37 | 25 | 381 | 28 | 1,173 | 26 | 81 | 28 | | | | | | | | | | | |
| | | | | 3 | Often | 31 | 21 | 415 | 31 | 1,426 | 32 | 87 | 30 | | | | | | | | | | | |
| | | | | 4 | Very often | 28 | 19 | 445 | 33 | 1,491 | 33 | 103 | 35 | | | | | | | | | | | |
| | | | | Total | | 149 | 100 | 1,342 | 100 | 4,505 | 100 | 292 | 100 | | | | | | | | | | | |
| h. Worked with other students on course projects or assignments | | | | CLproject | | | | 1 | Never | 23 | 15 | 17 | 1 | 93 | 2 | 1 | 0 | 2.7 | 3.2 *** | -0.61 | 3.3 *** | -0.65 | 3.3 *** | -0.59 |
| | | | | 2 | Sometimes | 40 | 27 | 240 | 18 | 692 | 15 | 51 | 17 | | | | | | | | | | | |
| | | | | 3 | Often | 38 | 26 | 486 | 36 | 1,632 | 36 | 113 | 39 | | | | | | | | | | | |
| | | | | 4 | Very often | 48 | 32 | 600 | 45 | 2,088 | 46 | 128 | 44 | | | | | | | | | | | |
| | | | | Total | | 149 | 100 | 1,343 | 100 | 4,505 | 100 | 293 | 100 | | | | | | | | | | | |
| i. Given a course presentation | | | | present | | | | 1 | Never | 32 | 21 | 162 | 12 | 418 | 9 | 35 | 12 | 2.4 | 2.5 * | -0.18 | 2.7 *** | -0.33 | 2.6 * | -0.22 |
| | | | | 2 | Sometimes | 53 | 36 | 545 | 41 | 1,604 | 36 | 106 | 36 | | | | | | | | | | | |
| | | | | 3 | Often | 40 | 27 | 381 | 28 | 1,459 | 32 | 98 | 33 | | | | | | | | | | | |
| | | | | 4 | Very often | 24 | 16 | 257 | 19 | 1,022 | 23 | 54 | 18 | | | | | | | | | | | |
| | | | | Total | | 149 | 100 | 1,345 | 100 | 4,503 | 100 | 293 | 100 | | | | | | | | | | | |
| 2. During the current school year, about how often have you done the following? | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Combined ideas from different courses when completing assignments | | | | RIintegrate | | | | 1 | Never | 4 | 3 | 26 | 2 | 117 | 3 | 5 | 2 | 2.8 | 2.9 | -0.13 | 2.9 | -0.16 | 3.0 | -0.18 |
| | | | | 2 | Sometimes | 50 | 34 | 411 | 31 | 1,254 | 28 | 83 | 28 | | | | | | | | | | | |
| | | | | 3 | Often | 63 | 43 | 555 | 41 | 1,917 | 43 | 125 | 43 | | | | | | | | | | | |
| | | | | 4 | Very often | 30 | 20 | 350 | 26 | 1,219 | 27 | 79 | 27 | | | | | | | | | | | |
| | | | | Total | | 147 | 100 | 1,342 | 100 | 4,507 | 100 | 292 | 100 | | | | | | | | | | | |
| b. Connected your learning to societal problems or issues | | | | RIsocietal | | | | 1 | Never | 28 | 19 | 245 | 18 | 659 | 15 | 47 | 16 | 2.2 | 2.3 | -0.04 | 2.4 | -0.16 | 2.3 | -0.09 |
| | | | | 2 | Sometimes | 72 | 48 | 644 | 48 | 2,081 | 46 | 143 | 49 | | | | | | | | | | | |
| | | | | 3 | Often | 37 | 25 | 318 | 24 | 1,256 | 28 | 72 | 25 | | | | | | | | | | | |
| | | | | 4 | Very often | 12 | 8 | 135 | 10 | 509 | 11 | 31 | 11 | | | | | | | | | | | |
| | | | | Total | | 149 | 100 | 1,342 | 100 | 4,505 | 100 | 293 | 100 | | | | | | | | | | | |
| c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments | | | | RIDiverse | | | | 1 | Never | 57 | 39 | 482 | 36 | 1,483 | 33 | 105 | 36 | 1.9 | 1.9 | -0.02 | 2.0 | -0.06 | 1.9 | .01 |
| | | | | 2 | Sometimes | 57 | 39 | 582 | 43 | 2,007 | 45 | 127 | 44 | | | | | | | | | | | |
| | | | | 3 | Often | 26 | 18 | 184 | 14 | 751 | 17 | 44 | 15 | | | | | | | | | | | |
| | | | | 4 | Very often | 8 | 5 | 92 | 7 | 261 | 6 | 15 | 5 | | | | | | | | | | | |
| | | | | Total | | 148 | 100 | 1,340 | 100 | 4,502 | 100 | 291 | 100 | | | | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| Item wording or description | | | | Variable name ^l | | | | Frequency Distributions | | | | Statistical Comparisons ^k | | | | | | | | | | | | |
|---|--|--|--|----------------------------|--|--|--|-------------------------|------------|---------------|-----|--------------------------------------|-----|---------|-----|----------------------------|------|--------------------------|---------|--------------------------|---------|--------------------------|---------|-------|
| | | | | | | | | UND | | Plains Public | | Carnegie Class | | One UND | | Your seniors compared with | | | | | | | | |
| | | | | | | | | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | | |
| d. Examined the strengths and weaknesses of your own views on a topic or issue | | | | RIownview | | | | 1 | Never | 18 | 12 | 142 | 11 | 419 | 9 | 27 | 9 | 2.5 | 2.5 | -.07 | 2.6 | -.13 | 2.5 | -.10 |
| | | | | | | | | 2 | Sometimes | 63 | 42 | 526 | 39 | 1,731 | 39 | 120 | 41 | | | | | | | |
| | | | | | | | | 3 | Often | 49 | 33 | 500 | 37 | 1,697 | 38 | 103 | 35 | | | | | | | |
| | | | | | | | | 4 | Very often | 19 | 13 | 173 | 13 | 648 | 14 | 42 | 14 | | | | | | | |
| | | | | | | | | Total | | 149 | 100 | 1,341 | 100 | 4,495 | 100 | 292 | 100 | | | | | | | |
| e. Tried to better understand someone else's views by imagining how an issue looks from their perspective | | | | RIperspect | | | | 1 | Never | 14 | 9 | 89 | 7 | 266 | 6 | 19 | 6 | 2.4 | 2.7 *** | -0.29 | 2.7 *** | -0.36 | 2.6 * | -0.24 |
| | | | | | | | | 2 | Sometimes | 73 | 49 | 474 | 35 | 1,473 | 33 | 111 | 38 | | | | | | | |
| | | | | | | | | 3 | Often | 44 | 30 | 545 | 41 | 1,912 | 42 | 119 | 41 | | | | | | | |
| | | | | | | | | 4 | Very often | 18 | 12 | 233 | 17 | 849 | 19 | 44 | 15 | | | | | | | |
| | | | | | | | | Total | | 149 | 100 | 1,341 | 100 | 4,500 | 100 | 293 | 100 | | | | | | | |
| f. Learned something that changed the way you understand an issue or concept | | | | RInewview | | | | 1 | Never | 6 | 4 | 61 | 5 | 150 | 3 | 11 | 4 | 2.8 | 2.7 | .04 | 2.8 | -.08 | 2.8 | -.04 |
| | | | | | | | | 2 | Sometimes | 51 | 34 | 466 | 35 | 1,397 | 31 | 97 | 33 | | | | | | | |
| | | | | | | | | 3 | Often | 63 | 42 | 569 | 43 | 1,982 | 44 | 123 | 42 | | | | | | | |
| | | | | | | | | 4 | Very often | 29 | 19 | 241 | 18 | 963 | 21 | 61 | 21 | | | | | | | |
| | | | | | | | | Total | | 149 | 100 | 1,337 | 100 | 4,492 | 100 | 292 | 100 | | | | | | | |
| g. Connected ideas from your courses to your prior experiences and knowledge | | | | RIconnect | | | | 1 | Never | 2 | 1 | 18 | 1 | 60 | 1 | 3 | 1 | 3.0 | 3.0 | -.05 | 3.1 | -.09 | 3.1 | -.11 |
| | | | | | | | | 2 | Sometimes | 34 | 23 | 288 | 22 | 894 | 20 | 55 | 19 | | | | | | | |
| | | | | | | | | 3 | Often | 74 | 50 | 652 | 49 | 2,184 | 49 | 146 | 50 | | | | | | | |
| | | | | | | | | 4 | Very often | 39 | 26 | 378 | 28 | 1,351 | 30 | 87 | 30 | | | | | | | |
| | | | | | | | | Total | | 149 | 100 | 1,336 | 100 | 4,489 | 100 | 291 | 100 | | | | | | | |
| 3. During the current school year, about how often have you done the following? | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Talked about career plans with a faculty member | | | | SFcareer | | | | 1 | Never | 45 | 31 | 243 | 18 | 924 | 21 | 49 | 17 | 2.0 | 2.4 *** | -0.39 | 2.3 *** | -0.31 | 2.4 *** | -0.42 |
| | | | | | | | | 2 | Sometimes | 66 | 45 | 532 | 40 | 1,851 | 41 | 119 | 41 | | | | | | | |
| | | | | | | | | 3 | Often | 23 | 16 | 343 | 26 | 1,073 | 24 | 74 | 25 | | | | | | | |
| | | | | | | | | 4 | Very often | 13 | 9 | 218 | 16 | 642 | 14 | 50 | 17 | | | | | | | |
| | | | | | | | | Total | | 147 | 100 | 1,336 | 100 | 4,490 | 100 | 292 | 100 | | | | | | | |
| b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.) | | | | SFotherwork | | | | 1 | Never | 74 | 50 | 442 | 33 | 1,746 | 39 | 101 | 35 | 1.9 | 2.1 ** | -0.25 | 2.0 | -0.15 | 2.1 * | -0.23 |
| | | | | | | | | 2 | Sometimes | 37 | 25 | 473 | 35 | 1,496 | 33 | 104 | 36 | | | | | | | |
| | | | | | | | | 3 | Often | 22 | 15 | 259 | 19 | 778 | 17 | 47 | 16 | | | | | | | |
| | | | | | | | | 4 | Very often | 15 | 10 | 163 | 12 | 474 | 11 | 40 | 14 | | | | | | | |
| | | | | | | | | Total | | 148 | 100 | 1,337 | 100 | 4,494 | 100 | 292 | 100 | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| Item wording or description | | | | Variable name ^l | | | | Frequency Distributions | | | | Statistical Comparisons ^k | | | | | | | | | | | | |
|--|--|--|--|----------------------------|--|--|--|-------------------------|-------------|--------------------------|------|--------------------------------------|------|--------------------------|-----|----------------------------|---------------|----------------|---------|---------|--------|-------|---------|-------|
| | | | | | | | | UND | | Plains Public | | Carnegie Class | | One UND | | Your seniors compared with | | | | | | | | |
| | | | | | | | | Count | % | Count | % | Count | % | Count | % | UND | Plains Public | Carnegie Class | | One UND | | | | |
| | | | | | | | | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | | | | | | | | | | |
| c. Discussed course topics, ideas, or concepts with a faculty member outside of class | | | | SFdiscuss | | | | 1 | Never | 52 | 35 | 238 | 18 | 961 | 21 | 47 | 16 | 2.0 | 2.3 *** | -0.31 | 2.2 ** | -0.24 | 2.3 *** | -0.38 |
| | | | | | | | | 2 | Sometimes | 51 | 34 | 623 | 47 | 1,986 | 44 | 127 | 44 | | | | | | | |
| | | | | | | | | 3 | Often | 38 | 26 | 326 | 24 | 1,065 | 24 | 86 | 30 | | | | | | | |
| | | | | | | | | 4 | Very often | 8 | 5 | 149 | 11 | 474 | 11 | 31 | 11 | | | | | | | |
| | | | | | | | | Total | | 149 | 100 | 1,336 | 100 | 4,486 | 100 | 291 | 100 | | | | | | | |
| d. Discussed your academic performance with a faculty member | | | | SFperform | | | | 1 | Never | 51 | 34 | 299 | 22 | 1,234 | 27 | 71 | 24 | 1.9 | 2.2 *** | -0.30 | 2.1 * | -0.19 | 2.1 ** | -0.28 |
| | | | | | | | | 2 | Sometimes | 69 | 46 | 635 | 47 | 2,072 | 46 | 135 | 46 | | | | | | | |
| | | | | | | | | 3 | Often | 22 | 15 | 295 | 22 | 844 | 19 | 59 | 20 | | | | | | | |
| | | | | | | | | 4 | Very often | 7 | 5 | 108 | 8 | 343 | 8 | 27 | 9 | | | | | | | |
| | | | | | | | | Total | | 149 | 100 | 1,337 | 100 | 4,493 | 100 | 292 | 100 | | | | | | | |
| 4. During the current school year, how much has your coursework emphasized the following? | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Memorizing course material | | | | memorize | | | | 1 | Very little | 16 | 11 | 114 | 9 | 431 | 10 | 29 | 10 | 2.5 | 2.6 | -0.09 | 2.6 | -0.09 | 2.5 | .04 |
| | | | | | | | | 2 | Some | 57 | 39 | 519 | 39 | 1,634 | 36 | 125 | 43 | | | | | | | |
| | | | | | | | | 3 | Quite a bit | 55 | 37 | 473 | 35 | 1,691 | 38 | 102 | 35 | | | | | | | |
| | | | | | | | | 4 | Very much | 20 | 14 | 232 | 17 | 740 | 16 | 36 | 12 | | | | | | | |
| | | | | | | | | Total | | 148 | 100 | 1,338 | 100 | 4,496 | 100 | 292 | 100 | | | | | | | |
| b. Applying facts, theories, or methods to practical problems or new situations | | | | HOapply | | | | 1 | Very little | 2 | 1 | 26 | 2 | 97 | 2 | 4 | 1 | 3.2 | 3.2 | -0.08 | 3.2 | -0.08 | 3.2 | -0.05 |
| | | | | | | | | 2 | Some | 28 | 19 | 192 | 14 | 635 | 14 | 42 | 14 | | | | | | | |
| | | | | | | | | 3 | Quite a bit | 60 | 41 | 555 | 42 | 1,884 | 42 | 133 | 46 | | | | | | | |
| | | | | | | | | 4 | Very much | 58 | 39 | 560 | 42 | 1,878 | 42 | 112 | 38 | | | | | | | |
| | | | | | | | | Total | | 148 | 100 | 1,333 | 100 | 4,494 | 100 | 291 | 100 | | | | | | | |
| c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts | | | | HOanalyze | | | | 1 | Very little | 9 | 6 | 54 | 4 | 196 | 4 | 8 | 3 | 2.9 | 3.0 | -0.08 | 3.0 | -0.10 | 3.0 | -0.09 |
| | | | | | | | | 2 | Some | 31 | 21 | 313 | 23 | 940 | 21 | 69 | 24 | | | | | | | |
| | | | | | | | | 3 | Quite a bit | 68 | 46 | 526 | 39 | 1,887 | 42 | 120 | 42 | | | | | | | |
| | | | | | | | | 4 | Very much | 41 | 28 | 442 | 33 | 1,464 | 33 | 91 | 32 | | | | | | | |
| | | | | | | | | Total | | 149 | 100 | 1,335 | 100 | 4,487 | 100 | 288 | 100 | | | | | | | |
| d. Evaluating a point of view, decision, or information source | | | | HOevaluate | | | | 1 | Very little | 16 | 11 | 210 | 16 | 619 | 14 | 52 | 18 | 2.6 | 2.4 | .14 | 2.5 | .05 | 2.4 * | .23 |
| | | | | | | | | 2 | Some | 56 | 38 | 521 | 39 | 1,651 | 37 | 117 | 40 | | | | | | | |
| | | | | | | | | 3 | Quite a bit | 54 | 36 | 413 | 31 | 1,503 | 33 | 87 | 30 | | | | | | | |
| | | | | | | | | 4 | Very much | 23 | 15 | 192 | 14 | 714 | 16 | 34 | 12 | | | | | | | |
| | | | | | | | | Total | | 149 | 100 | 1,336 | 100 | 4,487 | 100 | 290 | 100 | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|--|----------------------------|---------------------|------------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|------|--------------------------|------|--------------------------|-------|--------------------------|--|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| | | | | | | | | | | | | Mean | | Effect size ⁿ | | Effect size ⁿ | | | |
| Item wording or description | Variable name ^l | Values ^m | Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | |
| e. Forming a new idea or understanding from various pieces of information | HOform | 1 | Very little | 8 | 5 | 95 | 7 | 290 | 6 | 14 | 5 | 2.8 | 2.7 | .10 | 2.8 | .00 | 2.7 | .06 | |
| | | 2 | Some | 48 | 32 | 471 | 35 | 1,360 | 30 | 94 | 32 | | | | | | | | |
| | | 3 | Quite a bit | 63 | 42 | 523 | 39 | 1,921 | 43 | 141 | 49 | | | | | | | | |
| | | 4 | Very much | 30 | 20 | 246 | 18 | 919 | 20 | 41 | 14 | | | | | | | | |
| | | Total | | 149 | 100 | 1,335 | 100 | 4,490 | 100 | 290 | 100 | | | | | | | | |
| 5. During the current school year, to what extent have your instructors done the following? | | | | | | | | | | | | | | | | | | | |
| a. Clearly explained course goals and requirements | ETgoals | 1 | Very little | 1 | 1 | 37 | 3 | 126 | 3 | 6 | 2 | 3.1 | 3.0 | .14 | 3.0 | .11 | 2.9 * | .25 | |
| | | 2 | Some | 33 | 22 | 327 | 24 | 1,030 | 23 | 83 | 29 | | | | | | | | |
| | | 3 | Quite a bit | 69 | 46 | 617 | 46 | 2,109 | 47 | 139 | 48 | | | | | | | | |
| | | 4 | Very much | 46 | 31 | 356 | 27 | 1,221 | 27 | 62 | 21 | | | | | | | | |
| | | Total | | 149 | 100 | 1,337 | 100 | 4,486 | 100 | 290 | 100 | | | | | | | | |
| b. Taught course sessions in an organized way | ETorganize | 1 | Very little | 5 | 3 | 54 | 4 | 166 | 4 | 7 | 2 | 3.0 | 2.9 | .11 | 2.9 | .05 | 2.9 | .14 | |
| | | 2 | Some | 34 | 23 | 334 | 25 | 1,050 | 23 | 76 | 26 | | | | | | | | |
| | | 3 | Quite a bit | 69 | 46 | 644 | 48 | 2,156 | 48 | 151 | 52 | | | | | | | | |
| | | 4 | Very much | 41 | 28 | 302 | 23 | 1,117 | 25 | 54 | 19 | | | | | | | | |
| | | Total | | 149 | 100 | 1,334 | 100 | 4,489 | 100 | 288 | 100 | | | | | | | | |
| c. Used examples or illustrations to explain difficult points | ETexample | 1 | Very little | 2 | 1 | 40 | 3 | 147 | 3 | 5 | 2 | 3.1 | 3.0 | .16 | 3.1 | .09 | 3.0 | .16 | |
| | | 2 | Some | 29 | 20 | 303 | 23 | 864 | 19 | 65 | 22 | | | | | | | | |
| | | 3 | Quite a bit | 64 | 43 | 598 | 45 | 2,024 | 45 | 141 | 49 | | | | | | | | |
| | | 4 | Very much | 53 | 36 | 393 | 29 | 1,452 | 32 | 79 | 27 | | | | | | | | |
| | | Total | | 148 | 100 | 1,334 | 100 | 4,487 | 100 | 290 | 100 | | | | | | | | |
| d. Provided feedback on a draft or work in progress | ETdraftfb | 1 | Very little | 22 | 15 | 196 | 15 | 715 | 16 | 42 | 15 | 2.5 | 2.4 | .12 | 2.4 | .11 | 2.4 | .20 | |
| | | 2 | Some | 55 | 37 | 529 | 40 | 1,730 | 39 | 121 | 42 | | | | | | | | |
| | | 3 | Quite a bit | 41 | 28 | 440 | 33 | 1,378 | 31 | 100 | 35 | | | | | | | | |
| | | 4 | Very much | 31 | 21 | 171 | 13 | 664 | 15 | 24 | 8 | | | | | | | | |
| | | Total | | 149 | 100 | 1,336 | 100 | 4,487 | 100 | 287 | 100 | | | | | | | | |
| e. Provided prompt and detailed feedback on tests or completed assignments | ETfeedback | 1 | Very little | 12 | 8 | 120 | 9 | 399 | 9 | 20 | 7 | 2.6 | 2.6 | -.03 | 2.6 | -.09 | 2.6 | -.01 | |
| | | 2 | Some | 64 | 43 | 515 | 39 | 1,564 | 35 | 117 | 40 | | | | | | | | |
| | | 3 | Quite a bit | 49 | 33 | 495 | 37 | 1,781 | 40 | 119 | 41 | | | | | | | | |
| | | 4 | Very much | 23 | 16 | 204 | 15 | 744 | 17 | 33 | 11 | | | | | | | | |
| | | Total | | 148 | 100 | 1,334 | 100 | 4,488 | 100 | 289 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|--|--|---------------------|------------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|------|--------------------------|-------|--------------------------|--------|--------------------------|--|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| | | | | Count | | Count | | Count | | Count | | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | |
| Item wording or description | Variable name ^l | Values ^m | Response options | | % | | % | | % | | % | | | | | | | | |
| 6. During the current school year, about how often have you done the following? | | | | | | | | | | | | | | | | | | | |
| a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.) | QRconclude | 1 | Never | 2 | 1 | 33 | 2 | 93 | 2 | 3 | 1 | 3.1 | 3.1 | .08 | 3.1 | .05 | 3.1 | .10 | |
| | | 2 | Sometimes | 32 | 22 | 286 | 21 | 883 | 20 | 70 | 24 | | | | | | | | |
| | | 3 | Often | 56 | 38 | 546 | 41 | 1,947 | 43 | 121 | 42 | | | | | | | | |
| | | 4 | Very often | 58 | 39 | 469 | 35 | 1,562 | 35 | 96 | 33 | | | | | | | | |
| | | | Total | 148 | 100 | 1,334 | 100 | 4,485 | 100 | 290 | 100 | | | | | | | | |
| b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.) | QRproblem | 1 | Never | 20 | 14 | 222 | 17 | 825 | 18 | 61 | 21 | 2.7 | 2.5 | .15 | 2.5 * | .17 | 2.4 ** | .30 | |
| | | 2 | Sometimes | 47 | 32 | 463 | 35 | 1,451 | 32 | 98 | 34 | | | | | | | | |
| | | 3 | Often | 41 | 28 | 364 | 27 | 1,297 | 29 | 87 | 30 | | | | | | | | |
| | | 4 | Very often | 40 | 27 | 281 | 21 | 904 | 20 | 43 | 15 | | | | | | | | |
| | | | Total | 148 | 100 | 1,330 | 100 | 4,477 | 100 | 289 | 100 | | | | | | | | |
| c. Evaluated what others have concluded from numerical information | QRevaluate | 1 | Never | 18 | 12 | 119 | 9 | 434 | 10 | 27 | 9 | 2.6 | 2.7 | -.05 | 2.6 | -.02 | 2.6 | .02 | |
| | | 2 | Sometimes | 52 | 35 | 489 | 37 | 1,631 | 36 | 113 | 39 | | | | | | | | |
| | | 3 | Often | 48 | 32 | 457 | 34 | 1,595 | 36 | 102 | 35 | | | | | | | | |
| | | 4 | Very often | 30 | 20 | 265 | 20 | 817 | 18 | 48 | 17 | | | | | | | | |
| | | | Total | 148 | 100 | 1,330 | 100 | 4,477 | 100 | 290 | 100 | | | | | | | | |
| 7. During the current school year, about how many papers, reports, or other writing tasks of the following lengths have you been assigned? (Include those not yet completed.) | | | | | | | | | | | | | | | | | | | |
| a. Up to 5 pages | wrshortnum | 0 | None | 18 | 12 | 145 | 11 | 394 | 9 | 34 | 12 | 6.1 | 6.3 | -.02 | 6.8 | -.10 | 6.9 | -.12 | |
| | (Recoded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.) | 1.5 | 1-2 | 31 | 21 | 311 | 23 | 1,005 | 22 | 62 | 21 | | | | | | | | |
| | | 4 | 3-5 | 45 | 31 | 371 | 28 | 1,217 | 27 | 63 | 22 | | | | | | | | |
| | | 8 | 6-10 | 24 | 16 | 251 | 19 | 883 | 20 | 65 | 22 | | | | | | | | |
| | | 13 | 11-15 | 12 | 8 | 116 | 9 | 442 | 10 | 31 | 11 | | | | | | | | |
| | | 18 | 16-20 | 9 | 6 | 49 | 4 | 222 | 5 | 14 | 5 | | | | | | | | |
| | | 23 | More than 20 | 7 | 5 | 87 | 7 | 306 | 7 | 21 | 7 | | | | | | | | |
| | | | Total | 146 | 100 | 1,330 | 100 | 4,469 | 100 | 290 | 100 | | | | | | | | |
| b. Between 6 and 10 pages | wrmednum | 0 | None | 36 | 25 | 419 | 32 | 1,248 | 28 | 80 | 28 | 3.9 | 3.4 | .12 | 3.6 | .07 | 3.6 | .07 | |
| | (Recoded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.) | 1.5 | 1-2 | 47 | 32 | 408 | 31 | 1,404 | 31 | 97 | 33 | | | | | | | | |
| | | 4 | 3-5 | 32 | 22 | 256 | 19 | 929 | 21 | 52 | 18 | | | | | | | | |
| | | 8 | 6-10 | 19 | 13 | 149 | 11 | 514 | 12 | 40 | 14 | | | | | | | | |
| | | 13 | 11-15 | 4 | 3 | 48 | 4 | 199 | 4 | 8 | 3 | | | | | | | | |
| | | 18 | 16-20 | 3 | 2 | 14 | 1 | 70 | 2 | 7 | 2 | | | | | | | | |
| | | 23 | More than 20 | 5 | 3 | 33 | 2 | 94 | 2 | 6 | 2 | | | | | | | | |
| | | | Total | 146 | 100 | 1,327 | 100 | 4,458 | 100 | 290 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|---|--|-------|--------------|-------------------------|-----|---------------|-------|----------------|-------|---------|-----|---|--------------------------|---------------|--------------------------|----------------|--------------------------|---------|--|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| | | | | Count | % | Count | % | Count | % | Count | % | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | | |
| c. 11 pages or more | wrlongnum | 0 | None | 62 | 43 | 568 | 43 | 1,965 | 44 | 127 | 44 | 2.6 | 2.5 | .02 | 2.6 | .01 | 2.5 | .04 | |
| | | 1.5 | 1-2 | 49 | 34 | 421 | 32 | 1,344 | 30 | 96 | 33 | | | | | | | | |
| | <i>(Recoded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)</i> | 4 | 3-5 | 16 | 11 | 169 | 13 | 584 | 13 | 32 | 11 | | | | | | | | |
| | | 8 | 6-10 | 7 | 5 | 93 | 7 | 306 | 7 | 15 | 5 | | | | | | | | |
| | | 13 | 11-15 | 6 | 4 | 48 | 4 | 149 | 3 | 12 | 4 | | | | | | | | |
| | | 18 | 16-20 | 1 | 1 | 13 | 1 | 54 | 1 | 4 | 1 | | | | | | | | |
| | | 23 | More than 20 | 4 | 3 | 21 | 2 | 80 | 2 | 4 | 1 | | | | | | | | |
| | | Total | | | 145 | 100 | 1,333 | 100 | 4,482 | 100 | 290 | 100 | | | | | | | |
| Estimated number of assigned pages of student writing. | | | | | | | | | | | | 88.8 | 83.5 | .05 | 87.1 | .02 | 86.3 | .02 | |
| | | | | | | | | | | | | <i>(Continuous variable, recoded and summed by NSSE from wrshort, wrmed, and wrlong. Values are estimated pages of assigned writing.)</i> | | | | | | | |
| 8. During the current school year, about how often have you had discussions with people from the following groups? | | | | | | | | | | | | | | | | | | | |
| a. People of a race or ethnicity other than your own | DDrace | 1 | Never | 23 | 16 | 83 | 6 | 277 | 6 | 17 | 6 | 2.6 | 3.0 *** | -0.39 | 3.0 *** | -0.42 | 2.9 ** | -0.28 | |
| | | 2 | Sometimes | 49 | 33 | 361 | 27 | 1,190 | 27 | 92 | 32 | | | | | | | | |
| | | 3 | Often | 40 | 27 | 415 | 31 | 1,316 | 29 | 98 | 34 | | | | | | | | |
| | | 4 | Very often | 35 | 24 | 475 | 36 | 1,695 | 38 | 83 | 29 | | | | | | | | |
| | | | Total | 147 | 100 | 1,334 | 100 | 4,478 | 100 | 290 | 100 | | | | | | | | |
| b. People from an economic background other than your own | DDeconomic | 1 | Never | 22 | 15 | 62 | 5 | 223 | 5 | 10 | 3 | 2.6 | 3.0 *** | -0.43 | 3.0 *** | -0.48 | 3.0 *** | -0.40 | |
| | | 2 | Sometimes | 47 | 32 | 346 | 26 | 1,017 | 23 | 77 | 27 | | | | | | | | |
| | | 3 | Often | 46 | 31 | 471 | 35 | 1,651 | 37 | 119 | 41 | | | | | | | | |
| | | 4 | Very often | 32 | 22 | 453 | 34 | 1,584 | 35 | 84 | 29 | | | | | | | | |
| | | | Total | 147 | 100 | 1,332 | 100 | 4,475 | 100 | 290 | 100 | | | | | | | | |
| c. People with religious beliefs other than your own | DDreligion | 1 | Never | 21 | 14 | 57 | 4 | 340 | 8 | 14 | 5 | 2.6 | 3.0 *** | -0.47 | 2.9 *** | -0.34 | 2.9 *** | -0.36 | |
| | | 2 | Sometimes | 51 | 35 | 338 | 25 | 1,202 | 27 | 82 | 28 | | | | | | | | |
| | | 3 | Often | 41 | 28 | 456 | 34 | 1,383 | 31 | 102 | 35 | | | | | | | | |
| | | 4 | Very often | 34 | 23 | 483 | 36 | 1,550 | 35 | 91 | 31 | | | | | | | | |
| | | | Total | 147 | 100 | 1,334 | 100 | 4,475 | 100 | 289 | 100 | | | | | | | | |
| d. People with political views other than your own | DDpolitical | 1 | Never | 22 | 15 | 68 | 5 | 265 | 6 | 14 | 5 | 2.6 | 3.0 *** | -0.46 | 2.9 *** | -0.40 | 2.9 *** | -0.36 | |
| | | 2 | Sometimes | 50 | 34 | 351 | 26 | 1,240 | 28 | 84 | 29 | | | | | | | | |
| | | 3 | Often | 43 | 30 | 455 | 34 | 1,525 | 34 | 112 | 39 | | | | | | | | |
| | | 4 | Very often | 30 | 21 | 459 | 34 | 1,445 | 32 | 80 | 28 | | | | | | | | |
| | | | Total | 145 | 100 | 1,333 | 100 | 4,475 | 100 | 290 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|--|----------------------------|---------------------|------------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|---------|----------------------------|--------------------------|------|--------------------------|--------------------------|--|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Your seniors compared with | | | | | |
| Item wording or description | Variable name ^l | Values ^m | Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | | Mean | Effect size ⁿ | | |
| | | | | | | | | | | | | | | Mean | Effect size ⁿ | | Mean | Effect size ⁿ | |
| 9. During the current school year, about how often have you done the following? | | | | | | | | | | | | | | | | | | | |
| a. Identified key information from reading assignments | LSreading | 1 | Never | 7 | 5 | 96 | 7 | 258 | 6 | 17 | 6 | 2.9 | 2.7 * | .18 | 2.8 | .11 | 2.7 | .17 | |
| | | 2 | Sometimes | 40 | 27 | 428 | 32 | 1,385 | 31 | 99 | 34 | | | | | | | | |
| | | 3 | Often | 65 | 44 | 563 | 42 | 1,914 | 43 | 117 | 41 | | | | | | | | |
| | | 4 | Very often | 35 | 24 | 249 | 19 | 915 | 20 | 55 | 19 | | | | | | | | |
| | | Total | | 147 | 100 | 1,336 | 100 | 4,472 | 100 | 288 | 100 | | | | | | | | |
| b. Reviewed your notes after class | LSnotes | 1 | Never | 6 | 4 | 123 | 9 | 369 | 8 | 24 | 8 | 2.9 | 2.7 ** | .25 | 2.7 * | .18 | 2.7 * | .24 | |
| | | 2 | Sometimes | 47 | 32 | 493 | 37 | 1,590 | 36 | 107 | 37 | | | | | | | | |
| | | 3 | Often | 53 | 36 | 439 | 33 | 1,480 | 33 | 99 | 34 | | | | | | | | |
| | | 4 | Very often | 41 | 28 | 276 | 21 | 1,036 | 23 | 59 | 20 | | | | | | | | |
| | | Total | | 147 | 100 | 1,331 | 100 | 4,475 | 100 | 289 | 100 | | | | | | | | |
| c. Summarized what you learned in class or from course materials | LSsummary | 1 | Never | 11 | 7 | 140 | 10 | 470 | 10 | 27 | 9 | 2.7 | 2.6 | .12 | 2.6 | .11 | 2.5 | .17 | |
| | | 2 | Sometimes | 59 | 40 | 515 | 39 | 1,659 | 37 | 123 | 43 | | | | | | | | |
| | | 3 | Often | 41 | 28 | 434 | 33 | 1,554 | 35 | 93 | 32 | | | | | | | | |
| | | 4 | Very often | 36 | 24 | 246 | 18 | 795 | 18 | 46 | 16 | | | | | | | | |
| | | Total | | 147 | 100 | 1,335 | 100 | 4,478 | 100 | 289 | 100 | | | | | | | | |
| 10. During the current school year, to what extent have your courses challenged you to do your best work? | | | | | | | | | | | | | | | | | | | |
| challenge | | 1 | Not at all | 0 | 0 | 14 | 1 | 50 | 1 | 2 | 1 | 5.9 | 5.4 *** | .35 | 5.4 *** | .32 | 5.6 * | .25 | |
| | | 2 | | 1 | 1 | 26 | 2 | 95 | 2 | 3 | 1 | | | | | | | | |
| | | 3 | | 3 | 2 | 67 | 5 | 208 | 5 | 12 | 4 | | | | | | | | |
| | | 4 | | 10 | 7 | 160 | 12 | 499 | 11 | 28 | 10 | | | | | | | | |
| | | 5 | | 37 | 25 | 382 | 29 | 1,302 | 29 | 82 | 28 | | | | | | | | |
| | | 6 | | 45 | 31 | 387 | 29 | 1,248 | 28 | 89 | 31 | | | | | | | | |
| | | 7 | Very much | 50 | 34 | 297 | 22 | 1,070 | 24 | 72 | 25 | | | | | | | | |
| | | Total | | 146 | 100 | 1,333 | 100 | 4,472 | 100 | 288 | 100 | | | | | | | | |
| 11. Which of the following have you done or do you plan to do before you graduate?^o | | | | | | | | | | | | | | | | | | | |
| a. Participate in an internship, co-op, field experience, student teaching, or clinical placement | intern | Have not decided | | 16 | 11 | 80 | 6 | 208 | 5 | 21 | 7 | 52% | 58% | -.10 | 62% * | -.20 | 57% | -.10 | |
| | | Do not plan to do | | 25 | 17 | 133 | 10 | 438 | 10 | 30 | 10 | | | | | | | | |
| | | Plan to do | | 29 | 20 | 353 | 26 | 1,039 | 23 | 72 | 25 | | | | | | | | |
| | | Done or in progress | | 77 | 52 | 767 | 58 | 2,797 | 62 | 165 | 57 | | | | | | | | |
| | | Total | | 147 | 100 | 1,333 | 100 | 4,482 | 100 | 288 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|--|----------------------------|---|-----------------------------|-----------------------------|-----------------------------------|-----------------------------|---------------------------------------|-----------------------------|-------------------------------|-----------------------------|--------------------------------------|---------|--------------------------|---------|--------------------------|--------|--------------------------|--|
| | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| Item wording or description | Variable name ^l | Values ^m | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | |
| <i>Your seniors compared with</i> | | | | | | | | | | | | | | | | | | |
| b. Hold a formal leadership role in a student organization or group | leader | Have not decided Do not plan to do Plan to do Done or in progress Total | 21 65 12 47 145 | 14 45 8 32 100 | 116 452 112 652 1,332 | 9 34 8 49 100 | 383 1,616 366 2,110 4,475 | 9 36 8 47 100 | 32 102 29 125 288 | 11 35 10 43 100 | 32% | 49% *** | -.34 | 47% *** | -.30 | 43% * | -.23 | |
| c. Participate in a learning community or some other formal program where groups of students take two or more classes together | learncom | Have not decided Do not plan to do Plan to do Done or in progress Total | 20 83 15 29 147 | 14 56 10 20 100 | 143 736 128 325 1,332 | 11 55 10 24 100 | 505 2,456 366 1,141 4,468 | 11 55 8 26 100 | 35 138 25 91 289 | 12 48 9 31 100 | 20% | 24% | -.11 | 26% | -.14 | 31% ** | -.27 | |
| d. Participate in a study abroad program | abroad | Have not decided Do not plan to do Plan to do Done or in progress Total | 14 116 8 9 147 | 10 79 5 6 100 | 102 959 90 180 1,331 | 8 72 7 14 100 | 374 3,203 267 625 4,469 | 8 72 6 14 100 | 30 196 24 38 288 | 10 68 8 13 100 | 6% | 14% * | -.25 | 14% ** | -.27 | 13% * | -.24 | |
| e. Work with a faculty member on a research project | research | Have not decided Do not plan to do Plan to do Done or in progress Total | 26 61 22 38 147 | 18 41 15 26 100 | 174 527 218 410 1,329 | 13 40 16 31 100 | 620 1,739 657 1,461 4,477 | 14 39 15 33 100 | 31 104 57 97 289 | 11 36 20 34 100 | 26% | 31% | -.11 | 33% | -.15 | 34% | -.17 | |
| f. Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.) | capstone | Have not decided Do not plan to do Plan to do Done or in progress Total | 14 15 59 59 147 | 10 10 40 40 100 | 61 97 480 695 1,333 | 5 7 36 52 100 | 172 288 1,403 2,604 4,467 | 4 6 31 58 100 | 7 10 124 146 287 | 2 3 43 51 100 | 40% | 52% ** | -.24 | 58% *** | -.37 | 51% * | -.22 | |

12. About how many of your courses at this institution have included a community-based project (service-learning)?

| servcourse | 1 | 2 | 3 | 4 | Total | Count | % | Count | % | Count | % | Count | % | Count | % | Mean | Effect size ⁿ | |
|------------|------|-------|-------|-------|-------|-------|-----|-------|-----|-------|----|-------|----|-------|-----|------|--------------------------|-----|
| 1 | None | 2 | Some | 3 | Most | 79 | 54 | 706 | 53 | 2,360 | 53 | 144 | 50 | 1.6 | 1.6 | .02 | 1.5 | .04 |
| 2 | Some | 3 | Most | 4 | All | 53 | 36 | 528 | 40 | 1,842 | 41 | 127 | 44 | | | | | |
| 3 | Most | 4 | All | Total | 12 | 8 | 79 | 6 | 215 | 5 | 12 | 4 | | | | | | |
| 4 | All | Total | 2 | 1 | 18 | 1 | 56 | 1 | 5 | 2 | | | | | | | | |
| Total | 146 | 100 | 1,331 | 100 | 4,473 | 100 | 288 | 100 | | | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|---|-------------------------------|---------------------|------------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|-------|----------------------------|--------------------------|-------|--------------------------|--------------------------|--|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Your seniors compared with | | | | | |
| Item wording or description | Variable name ^l | Values ^m | Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | | Mean | Effect size ⁿ | | |
| | | | | | | | | | | | | | | Mean | Effect size ⁿ | | Mean | Effect size ⁿ | |
| 13. Indicate the quality of your interactions with the following people at your institution. | | | | | | | | | | | | | | | | | | | |
| a. Students | QIstudent | 1 | Poor | 4 | 3 | 11 | 1 | 49 | 1 | 2 | 1 | 5.4 | 5.7 * | -0.19 | 5.6 | -0.11 | 5.6 | -0.15 | |
| | | 2 | | 3 | 2 | 16 | 1 | 62 | 1 | 2 | 1 | | | | | | | | |
| | | 3 | | 5 | 3 | 46 | 3 | 179 | 4 | 11 | 4 | | | | | | | | |
| | | 4 | | 11 | 7 | 119 | 9 | 436 | 10 | 26 | 9 | | | | | | | | |
| | | 5 | | 35 | 24 | 322 | 24 | 1,183 | 26 | 76 | 26 | | | | | | | | |
| | | 6 | | 41 | 28 | 420 | 32 | 1,303 | 29 | 96 | 33 | | | | | | | | |
| | | 7 | Excellent | 31 | 21 | 394 | 30 | 1,235 | 28 | 73 | 25 | | | | | | | | |
| | | — | Not applicable | 17 | 12 | 5 | 0 | 32 | 1 | 3 | 1 | | | | | | | | |
| | | | Total | 147 | 100 | 1,333 | 100 | 4,479 | 100 | 289 | 100 | | | | | | | | |
| b. Academic advisors | QIadvisor | 1 | Poor | 12 | 8 | 61 | 5 | 278 | 6 | 13 | 4 | 4.9 | 5.0 | -0.08 | 4.9 | -0.03 | 5.0 | -0.09 | |
| | | 2 | | 12 | 8 | 79 | 6 | 277 | 6 | 13 | 4 | | | | | | | | |
| | | 3 | | 7 | 5 | 130 | 10 | 418 | 9 | 26 | 9 | | | | | | | | |
| | | 4 | | 23 | 16 | 179 | 13 | 620 | 14 | 37 | 13 | | | | | | | | |
| | | 5 | | 26 | 18 | 289 | 22 | 898 | 20 | 68 | 24 | | | | | | | | |
| | | 6 | | 24 | 16 | 242 | 18 | 817 | 18 | 71 | 25 | | | | | | | | |
| | | 7 | Excellent | 39 | 27 | 345 | 26 | 1,099 | 25 | 59 | 20 | | | | | | | | |
| | | — | Not applicable | 4 | 3 | 7 | 1 | 70 | 2 | 2 | 1 | | | | | | | | |
| | | | Total | 147 | 100 | 1,332 | 100 | 4,477 | 100 | 289 | 100 | | | | | | | | |
| c. Faculty | QIfaculty | 1 | Poor | 4 | 3 | 16 | 1 | 88 | 2 | 4 | 1 | 5.1 | 5.2 | -0.06 | 5.2 | -0.04 | 5.1 | -0.04 | |
| | | 2 | | 8 | 5 | 38 | 3 | 140 | 3 | 5 | 2 | | | | | | | | |
| | | 3 | | 8 | 5 | 81 | 6 | 323 | 7 | 21 | 7 | | | | | | | | |
| | | 4 | | 21 | 14 | 239 | 18 | 680 | 15 | 38 | 13 | | | | | | | | |
| | | 5 | | 39 | 27 | 380 | 29 | 1,268 | 28 | 108 | 37 | | | | | | | | |
| | | 6 | | 37 | 25 | 332 | 25 | 1,150 | 26 | 69 | 24 | | | | | | | | |
| | | 7 | Excellent | 27 | 18 | 240 | 18 | 812 | 18 | 42 | 15 | | | | | | | | |
| | | — | Not applicable | 3 | 2 | 5 | 0 | 22 | 0 | 2 | 1 | | | | | | | | |
| | | | Total | 147 | 100 | 1,331 | 100 | 4,483 | 100 | 289 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|--|----------------------------|---------------------|------------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|--------|--------------------------|---------|--------------------------|--------|--------------------------|-----|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| | | | | Count | | Count | | Count | | Count | | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | |
| Item wording or description | Variable name ^l | Values ^m | Response options | % | % | % | % | % | % | % | % | | | | | | | | |
| d. Student services staff (career services, student activities, housing, etc.) | QIstaff | 1 | Poor | 6 | 4 | 48 | 4 | 237 | 5 | 7 | 2 | 5.0 | 5.0 | .03 | 4.7 | .16 | 5.1 | -.08 | |
| | | 2 | | 5 | 3 | 47 | 4 | 220 | 5 | 9 | 3 | | | | | | | | |
| | | 3 | | 11 | 7 | 93 | 7 | 399 | 9 | 18 | 6 | | | | | | | | |
| | | 4 | | 15 | 10 | 205 | 15 | 692 | 15 | 42 | 15 | | | | | | | | |
| | | 5 | | 27 | 18 | 297 | 22 | 946 | 21 | 60 | 21 | | | | | | | | |
| | | 6 | | 24 | 16 | 258 | 19 | 763 | 17 | 68 | 24 | | | | | | | | |
| | | 7 | Excellent | 27 | 18 | 215 | 16 | 673 | 15 | 50 | 17 | | | | | | | | |
| | | — | Not applicable | 32 | 22 | 169 | 13 | 550 | 12 | 35 | 12 | | | | | | | | |
| Total | | | | 147 | 100 | 1,332 | 100 | 4,480 | 100 | 289 | 100 | | | | | | | | |
| e. Other administrative staff and offices (registrar, financial aid, etc.) | QIadmin | 1 | Poor | 5 | 3 | 48 | 4 | 251 | 6 | 7 | 2 | 5.1 | 5.0 | .09 | 4.8 ** | .23 | 5.0 | .10 | |
| | | 2 | | 6 | 4 | 56 | 4 | 240 | 5 | 11 | 4 | | | | | | | | |
| | | 3 | | 5 | 3 | 93 | 7 | 381 | 9 | 23 | 8 | | | | | | | | |
| | | 4 | | 23 | 16 | 200 | 15 | 773 | 17 | 49 | 17 | | | | | | | | |
| | | 5 | | 32 | 22 | 315 | 24 | 1,029 | 23 | 72 | 25 | | | | | | | | |
| | | 6 | | 28 | 19 | 302 | 23 | 824 | 18 | 72 | 25 | | | | | | | | |
| | | 7 | Excellent | 31 | 21 | 226 | 17 | 712 | 16 | 41 | 14 | | | | | | | | |
| | | — | Not applicable | 16 | 11 | 92 | 7 | 264 | 6 | 14 | 5 | | | | | | | | |
| Total | | | | 146 | 100 | 1,332 | 100 | 4,474 | 100 | 289 | 100 | | | | | | | | |
| 14. How much does your institution emphasize the following? | | | | | | | | | | | | | | | | | | | |
| a. Spending significant amounts of time studying and on academic work | empstudy | 1 | Very little | 0 | 0 | 17 | 1 | 72 | 2 | 1 | 0 | 3.1 | 3.1 | .04 | 3.2 | -.13 | 3.1 | .04 | |
| | | 2 | Some | 32 | 22 | 242 | 18 | 655 | 15 | 63 | 22 | | | | | | | | |
| | | 3 | Quite a bit | 63 | 43 | 656 | 49 | 1,903 | 43 | 130 | 45 | | | | | | | | |
| | | 4 | Very much | 52 | 35 | 416 | 31 | 1,847 | 41 | 95 | 33 | | | | | | | | |
| | | Total | | | | 147 | 100 | 1,331 | 100 | 4,477 | 100 | | | | | | | | 289 |
| b. Providing support to help students succeed academically | SEacademic | 1 | Very little | 12 | 8 | 67 | 5 | 249 | 6 | 21 | 7 | 2.7 | 2.9 ** | -.24 | 2.8 ** | -.22 | 2.8 | -.16 | |
| | | 2 | Some | 50 | 34 | 354 | 27 | 1,208 | 27 | 81 | 28 | | | | | | | | |
| | | 3 | Quite a bit | 60 | 41 | 610 | 46 | 1,999 | 45 | 123 | 43 | | | | | | | | |
| | | 4 | Very much | 24 | 16 | 300 | 23 | 1,012 | 23 | 63 | 22 | | | | | | | | |
| | | Total | | | | 146 | 100 | 1,331 | 100 | 4,468 | 100 | | | | | | | | 288 |
| c. Using learning support services (tutoring services, writing center, etc.) | SElearnsup | 1 | Very little | 19 | 13 | 131 | 10 | 406 | 9 | 25 | 9 | 2.5 | 2.7 ** | -.24 | 2.8 *** | -.28 | 2.8 ** | -.29 | |
| | | 2 | Some | 55 | 37 | 396 | 30 | 1,310 | 29 | 80 | 28 | | | | | | | | |
| | | 3 | Quite a bit | 53 | 36 | 515 | 39 | 1,733 | 39 | 122 | 42 | | | | | | | | |
| | | 4 | Very much | 20 | 14 | 287 | 22 | 1,027 | 23 | 62 | 21 | | | | | | | | |
| | | Total | | | | 147 | 100 | 1,329 | 100 | 4,476 | 100 | | | | | | | | 289 |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| Item wording or description | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|---|--------------|-------|-------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|--------------------------|---------------|--------------------------|----------------|--------------------------|---------|--|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| | | | | Count | % | Count | % | Count | % | Count | % | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | | |
| d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.) | SEdiverse | 1 | Very little | 26 | 18 | 209 | 16 | 929 | 21 | 50 | 17 | 2.4 | 2.4 | -.09 | 2.4 | -.01 | 2.3 | .02 | |
| | | 2 | Some | 59 | 40 | 500 | 38 | 1,626 | 36 | 127 | 44 | | | | | | | | |
| | | 3 | Quite a bit | 43 | 29 | 441 | 33 | 1,252 | 28 | 75 | 26 | | | | | | | | |
| | | 4 | Very much | 18 | 12 | 183 | 14 | 663 | 15 | 37 | 13 | | | | | | | | |
| | | Total | | 146 | 100 | 1,333 | 100 | 4,470 | 100 | 289 | 100 | | | | | | | | |
| e. Providing opportunities to be involved socially | SEsocial | 1 | Very little | 18 | 12 | 114 | 9 | 443 | 10 | 22 | 8 | 2.5 | 2.7 ** | -.27 | 2.7 ** | -.22 | 2.8 ** | -.32 | |
| | | 2 | Some | 58 | 39 | 377 | 28 | 1,368 | 31 | 78 | 27 | | | | | | | | |
| | | 3 | Quite a bit | 51 | 35 | 589 | 44 | 1,778 | 40 | 132 | 46 | | | | | | | | |
| | | 4 | Very much | 20 | 14 | 249 | 19 | 886 | 20 | 57 | 20 | | | | | | | | |
| | | Total | | 147 | 100 | 1,329 | 100 | 4,475 | 100 | 289 | 100 | | | | | | | | |
| f. Providing support for your overall well-being (recreation, health care, counseling, etc.) | SEwellness | 1 | Very little | 15 | 10 | 142 | 11 | 595 | 13 | 27 | 9 | 2.6 | 2.7 | -.12 | 2.6 | -.03 | 2.8 | -.19 | |
| | | 2 | Some | 54 | 37 | 390 | 29 | 1,346 | 30 | 74 | 26 | | | | | | | | |
| | | 3 | Quite a bit | 52 | 36 | 521 | 39 | 1,659 | 37 | 126 | 44 | | | | | | | | |
| | | 4 | Very much | 25 | 17 | 277 | 21 | 867 | 19 | 61 | 21 | | | | | | | | |
| | | Total | | 146 | 100 | 1,330 | 100 | 4,467 | 100 | 288 | 100 | | | | | | | | |
| g. Helping you manage your non-academic responsibilities (work, family, etc.) | SEnonacad | 1 | Very little | 53 | 36 | 447 | 34 | 1,700 | 38 | 95 | 33 | 2.0 | 2.0 | .01 | 1.9 | .06 | 2.0 | .02 | |
| | | 2 | Some | 52 | 35 | 537 | 40 | 1,665 | 37 | 122 | 42 | | | | | | | | |
| | | 3 | Quite a bit | 33 | 22 | 271 | 20 | 789 | 18 | 58 | 20 | | | | | | | | |
| | | 4 | Very much | 9 | 6 | 75 | 6 | 312 | 7 | 14 | 5 | | | | | | | | |
| | | Total | | 147 | 100 | 1,330 | 100 | 4,466 | 100 | 289 | 100 | | | | | | | | |
| h. Attending campus activities and events (performing arts, athletic events, etc.) | SEactivities | 1 | Very little | 24 | 16 | 192 | 14 | 681 | 15 | 36 | 13 | 2.5 | 2.5 | -.01 | 2.5 | .00 | 2.5 | -.05 | |
| | | 2 | Some | 47 | 32 | 486 | 36 | 1,612 | 36 | 105 | 36 | | | | | | | | |
| | | 3 | Quite a bit | 55 | 38 | 459 | 34 | 1,487 | 33 | 106 | 37 | | | | | | | | |
| | | 4 | Very much | 20 | 14 | 195 | 15 | 689 | 15 | 41 | 14 | | | | | | | | |
| | | Total | | 146 | 100 | 1,332 | 100 | 4,469 | 100 | 288 | 100 | | | | | | | | |
| i. Attending events that address important social, economic, or political issues | SEevents | 1 | Very little | 40 | 27 | 324 | 24 | 1,242 | 28 | 66 | 23 | 2.2 | 2.1 | .03 | 2.1 | .08 | 2.1 | .04 | |
| | | 2 | Some | 55 | 38 | 591 | 44 | 1,895 | 42 | 138 | 48 | | | | | | | | |
| | | 3 | Quite a bit | 38 | 26 | 325 | 24 | 994 | 22 | 65 | 23 | | | | | | | | |
| | | 4 | Very much | 13 | 9 | 90 | 7 | 333 | 7 | 19 | 7 | | | | | | | | |
| | | Total | | 146 | 100 | 1,330 | 100 | 4,464 | 100 | 288 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|---|---|---------------------|------------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|---------|----------------------------|---------|--------------------------|--------|--------------------------|--|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Your seniors compared with | | | | | |
| | | | | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | |
| Item wording or description | Variable name ^l | Values ^m | Response options | | | | | | | | | | | | | | | | |
| 15. About how many hours do you spend in a typical 7-day week doing the following? | | | | | | | | | | | | | | | | | | | |
| a. Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities) | tmprephrs | 0 | 0 hrs | 1 | 1 | 7 | 1 | 15 | 0 | 1 | 0 | 18.6 | 17.7 | .10 | 18.1 | .05 | 19.9 | -.15 | |
| | (Recoded version of tmprep created by NSSE. Values are estimated number of hours per week.) | 3 | 1-5 hrs | 7 | 5 | 107 | 8 | 383 | 9 | 16 | 6 | | | | | | | | |
| | | 8 | 6-10 hrs | 27 | 18 | 234 | 18 | 721 | 16 | 39 | 13 | | | | | | | | |
| | | 13 | 11-15 hrs | 28 | 19 | 248 | 19 | 761 | 17 | 38 | 13 | | | | | | | | |
| | | 18 | 16-20 hrs | 25 | 17 | 261 | 20 | 876 | 20 | 60 | 21 | | | | | | | | |
| | | 23 | 21-25 hrs | 19 | 13 | 167 | 13 | 634 | 14 | 50 | 17 | | | | | | | | |
| | | 28 | 26-30 hrs | 16 | 11 | 107 | 8 | 396 | 9 | 26 | 9 | | | | | | | | |
| | | 33 | More than 30 hrs | 24 | 16 | 197 | 15 | 684 | 15 | 59 | 20 | | | | | | | | |
| | | | Total | 147 | 100 | 1,328 | 100 | 4,470 | 100 | 289 | 100 | | | | | | | | |
| b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.) | tmcocurrhrs | 0 | 0 hrs | 74 | 51 | 363 | 27 | 1,432 | 32 | 86 | 30 | 3.9 | 6.2 *** | -.33 | 5.8 *** | -.27 | 5.7 ** | -.27 | |
| | (Recoded version of tmcocurr created by NSSE. Values are estimated number of hours per week.) | 3 | 1-5 hrs | 39 | 27 | 455 | 34 | 1,464 | 33 | 103 | 36 | | | | | | | | |
| | | 8 | 6-10 hrs | 15 | 10 | 224 | 17 | 698 | 16 | 45 | 16 | | | | | | | | |
| | | 13 | 11-15 hrs | 7 | 5 | 137 | 10 | 388 | 9 | 25 | 9 | | | | | | | | |
| | | 18 | 16-20 hrs | 6 | 4 | 77 | 6 | 224 | 5 | 16 | 6 | | | | | | | | |
| | | 23 | 21-25 hrs | 3 | 2 | 45 | 3 | 121 | 3 | 8 | 3 | | | | | | | | |
| | | 28 | 26-30 hrs | 1 | 1 | 11 | 1 | 55 | 1 | 3 | 1 | | | | | | | | |
| | | 33 | More than 30 hrs | 1 | 1 | 19 | 1 | 80 | 2 | 3 | 1 | | | | | | | | |
| | | | Total | 146 | 100 | 1,331 | 100 | 4,462 | 100 | 289 | 100 | | | | | | | | |
| c. Working for pay on campus | tmworkonhrs | 0 | 0 hrs | 101 | 69 | 862 | 65 | 2,758 | 62 | 186 | 64 | 3.7 | 4.6 | -.12 | 4.4 | -.11 | 4.4 | -.09 | |
| | (Recoded version of tmworkon created by NSSE. Values are estimated number of hours per week.) | 3 | 1-5 hrs | 7 | 5 | 71 | 5 | 329 | 7 | 21 | 7 | | | | | | | | |
| | | 8 | 6-10 hrs | 19 | 13 | 130 | 10 | 532 | 12 | 28 | 10 | | | | | | | | |
| | | 13 | 11-15 hrs | 8 | 5 | 111 | 8 | 374 | 8 | 18 | 6 | | | | | | | | |
| | | 18 | 16-20 hrs | 6 | 4 | 98 | 7 | 337 | 8 | 24 | 8 | | | | | | | | |
| | | 23 | 21-25 hrs | 3 | 2 | 31 | 2 | 79 | 2 | 8 | 3 | | | | | | | | |
| | | 28 | 26-30 hrs | 2 | 1 | 15 | 1 | 26 | 1 | 2 | 1 | | | | | | | | |
| | | 33 | More than 30 hrs | 1 | 1 | 15 | 1 | 35 | 1 | 2 | 1 | | | | | | | | |
| | | | Total | 147 | 100 | 1,333 | 100 | 4,470 | 100 | 289 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | | | |
|--|---|---------------------|------------------|-------------------------|-----|---------------|-------|----------------|-----|---------|-----|--------------------------------------|------|--------------------------|------|--------------------------|----------|--------------------------|---|----------|------|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | | | |
| | | | | Count | | Count | | Count | | Count | | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | | | |
| Item wording or description | Variable name ^l | Values ^m | Response options | | % | | % | | % | | % | | | | | | | | | | |
| d. Working for pay off campus | tmworkoffhrs | 0 | 0 hrs | 61 | 41 | 716 | 54 | 2,476 | 55 | 180 | 62 | 14.5 | ▲ | 8.3 *** | .55 | ▲ | 8.3 *** | .54 | ▲ | 6.0 *** | .75 |
| | (Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.) | 3 | 1-5 hrs | 5 | 3 | 61 | 5 | 232 | 5 | 13 | 4 | | | | | | | | | | |
| | 8 | 6-10 hrs | 5 | 3 | 84 | 6 | 280 | 6 | 21 | 7 | | | | | | | | | | | |
| | 13 | 11-15 hrs | 11 | 7 | 107 | 8 | 299 | 7 | 18 | 6 | | | | | | | | | | | |
| | 18 | 16-20 hrs | 7 | 5 | 141 | 11 | 377 | 8 | 27 | 9 | | | | | | | | | | | |
| | 23 | 21-25 hrs | 9 | 6 | 84 | 6 | 239 | 5 | 15 | 5 | | | | | | | | | | | |
| | 28 | 26-30 hrs | 3 | 2 | 47 | 4 | 159 | 4 | 7 | 2 | | | | | | | | | | | |
| | 33 | More than 30 hrs | 46 | 31 | 90 | 7 | 407 | 9 | 8 | 3 | | | | | | | | | | | |
| | Total | | | 147 | 100 | 1,330 | 100 | 4,469 | 100 | 289 | 100 | | | | | | | | | | |
| Estimated number of hours working for pay | tmworkhrs | | | | | | | | | | | 18.2 | ▲ | 12.8 *** | .44 | ▲ | 12.7 *** | .45 | ▲ | 10.3 *** | .62 |
| | (Continuous variable created by NSSE) | | | | | | | | | | | | | | | | | | | | |
| e. Doing community service or volunteer work | tmservicehrs | 0 | 0 hrs | 72 | 49 | 776 | 58 | 2,628 | 59 | 190 | 66 | 3.0 | ▲ | 2.4 | .12 | ▲ | 2.2 * | .20 | ▲ | 1.7 ** | .28 |
| | (Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.) | 3 | 1-5 hrs | 55 | 37 | 417 | 31 | 1,425 | 32 | 82 | 28 | | | | | | | | | | |
| | 8 | 6-10 hrs | 10 | 7 | 57 | 4 | 213 | 5 | 7 | 2 | | | | | | | | | | | |
| | 13 | 11-15 hrs | 3 | 2 | 31 | 2 | 102 | 2 | 4 | 1 | | | | | | | | | | | |
| | 18 | 16-20 hrs | 2 | 1 | 30 | 2 | 47 | 1 | 2 | 1 | | | | | | | | | | | |
| | 23 | 21-25 hrs | 3 | 2 | 14 | 1 | 31 | 1 | 2 | 1 | | | | | | | | | | | |
| | 28 | 26-30 hrs | 2 | 1 | 1 | 0 | 5 | 0 | 0 | 0 | | | | | | | | | | | |
| | 33 | More than 30 hrs | 0 | 0 | 7 | 1 | 21 | 0 | 2 | 1 | | | | | | | | | | | |
| | Total | | | 147 | 100 | 1,333 | 100 | 4,472 | 100 | 289 | 100 | | | | | | | | | | |
| f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.) | tmrelaxhrs | 0 | 0 hrs | 5 | 3 | 27 | 2 | 125 | 3 | 6 | 2 | 9.7 | ▼ | 11.9 ** | -.28 | ▼ | 11.4 * | -.21 | ▼ | 12.2 ** | -.32 |
| | (Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.) | 3 | 1-5 hrs | 53 | 36 | 270 | 20 | 1,076 | 24 | 60 | 21 | | | | | | | | | | |
| | 8 | 6-10 hrs | 38 | 26 | 383 | 29 | 1,231 | 28 | 73 | 25 | | | | | | | | | | | |
| | 13 | 11-15 hrs | 22 | 15 | 285 | 21 | 910 | 20 | 58 | 20 | | | | | | | | | | | |
| | 18 | 16-20 hrs | 13 | 9 | 203 | 15 | 536 | 12 | 53 | 18 | | | | | | | | | | | |
| | 23 | 21-25 hrs | 7 | 5 | 65 | 5 | 238 | 5 | 14 | 5 | | | | | | | | | | | |
| | 28 | 26-30 hrs | 4 | 3 | 25 | 2 | 123 | 3 | 14 | 5 | | | | | | | | | | | |
| | 33 | More than 30 hrs | 5 | 3 | 73 | 5 | 228 | 5 | 10 | 3 | | | | | | | | | | | |
| | Total | | | 147 | 100 | 1,331 | 100 | 4,467 | 100 | 288 | 100 | | | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | | | |
|--|--|---------------------|------------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|---------|--------------------------|------------|--------------------------|---------|--------------------------|-----|-------|-----|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | | | |
| | | | | Count | | Count | | Count | | Count | | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | | | |
| Item wording or description | Variable name ^l | Values ^m | Response options | | % | | % | | % | | % | | | | | | | | | | |
| g. Providing care for dependents (children, parents, etc.) | | | | | | | | | | | | | | | | | | | | | |
| | tmcarehrs | 0 | 0 hrs | 80 | 54 | 1,050 | 79 | 3,397 | 76 | 252 | 87 | 8.4 | 3.1 *** | .64 | 3.3 *** | .62 | 2.0 *** | .73 | | | |
| | (Recorded version of tmcare created by NSSE. Values are estimated number of hours per week.) | 3 | 1-5 hrs | 13 | 9 | 91 | 7 | 381 | 9 | 9 | 3 | | | | | | | | | | |
| | | 8 | 6-10 hrs | 4 | 3 | 46 | 3 | 184 | 4 | 8 | 3 | | | | | | | | | | |
| | | 13 | 11-15 hrs | 10 | 7 | 33 | 2 | 118 | 3 | 5 | 2 | | | | | | | | | | |
| | | 18 | 16-20 hrs | 13 | 9 | 32 | 2 | 98 | 2 | 0 | 0 | | | | | | | | | | |
| | | 23 | 21-25 hrs | 8 | 5 | 17 | 1 | 57 | 1 | 5 | 2 | | | | | | | | | | |
| | | 28 | 26-30 hrs | 2 | 1 | 5 | 0 | 28 | 1 | 2 | 1 | | | | | | | | | | |
| | | 33 | More than 30 hrs | 17 | 12 | 58 | 4 | 206 | 5 | 8 | 3 | | | | | | | | | | |
| | | | Total | 147 | 100 | 1,332 | 100 | 4,469 | 100 | 289 | 100 | | | | | | | | | | |
| h. Commuting to campus (driving, walking, etc.) | | | | | | | | | | | | | | | | | | | | | |
| | tmcommutehrs | 0 | 0 hrs | 61 | 41 | 112 | 8 | 674 | 15 | 38 | 13 | 3.5 | 5.3 *** | -.32 | 5.0 ** | -.27 | 4.2 | -.15 | | | |
| | (Recorded version of tmcommute created by NSSE. Values are estimated number of hours per week.) | 3 | 1-5 hrs | 63 | 43 | 851 | 64 | 2,570 | 57 | 196 | 68 | | | | | | | | | | |
| | | 8 | 6-10 hrs | 8 | 5 | 223 | 17 | 770 | 17 | 33 | 11 | | | | | | | | | | |
| | | 13 | 11-15 hrs | 8 | 5 | 72 | 5 | 231 | 5 | 11 | 4 | | | | | | | | | | |
| | | 18 | 16-20 hrs | 3 | 2 | 32 | 2 | 92 | 2 | 6 | 2 | | | | | | | | | | |
| | | 23 | 21-25 hrs | 3 | 2 | 17 | 1 | 42 | 1 | 2 | 1 | | | | | | | | | | |
| | | 28 | 26-30 hrs | 0 | 0 | 5 | 0 | 19 | 0 | 0 | 0 | | | | | | | | | | |
| | | 33 | More than 30 hrs | 1 | 1 | 20 | 2 | 73 | 2 | 2 | 1 | | | | | | | | | | |
| | | | Total | 147 | 100 | 1,332 | 100 | 4,471 | 100 | 288 | 100 | | | | | | | | | | |
| 16. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading? | | | | | | | | | | | | | | | | | | | | | |
| | reading | 1 | Very little | 38 | 26 | 504 | 38 | 1,563 | 35 | 116 | 40 | 2.3 | 2.0 ** | .28 | 2.0 ** | .22 | 1.9 *** | .41 | | | |
| | | 2 | Some | 58 | 40 | 495 | 37 | 1,722 | 39 | 117 | 41 | | | | | | | | | | |
| | | 3 | About half | 29 | 20 | 211 | 16 | 758 | 17 | 37 | 13 | | | | | | | | | | |
| | | 4 | Most | 16 | 11 | 85 | 6 | 312 | 7 | 14 | 5 | | | | | | | | | | |
| | | 5 | Almost all | 5 | 3 | 32 | 2 | 116 | 3 | 4 | 1 | | | | | | | | | | |
| | | | Total | 146 | 100 | 1,327 | 100 | 4,471 | 100 | 288 | 100 | | | | | | | | | | |
| | tmreadinghrs | | | | | | | | | | | | | | 6.3 | 5.0 * | .25 | 5.4 * | .17 | 5.1 * | .23 |
| | (Continuous variable created by NSSE. Calculated as a proportion of tmprephrs based on reading, where Very little=.10; Some=.25; About half=.50; Most=.75; Almost all=.90) | | | | | | | | | | | | | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| Item wording or description | Variable name ^l | Values ^m | Response options | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | |
|-----------------------------|--|---------------------|-----------------------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|---------------|----------------|---------|--------------------------|--------------------------|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | Your seniors compared with | | | | | |
| | | | | Count | % | Count | % | Count | % | Count | % | UND | Plains Public | Carnegie Class | One UND | Effect size ⁿ | Effect size ⁿ |
| | tmreadinghrscol | 1 | 0 hrs | 1 | 1 | 7 | 1 | 15 | 0 | 1 | 0 | | | | | | |
| | (Collapsed version of tmreadinghrs created by NSSE.) | 2 | More than zero, up to 5 hrs | 80 | 55 | 859 | 65 | 2,785 | 62 | 180 | 63 | | | | | | |
| | | 3 | More than 5, up to 10 hrs | 38 | 26 | 315 | 24 | 1,087 | 24 | 81 | 28 | | | | | | |
| | | 4 | More than 10, up to 15 hrs | 14 | 10 | 67 | 5 | 266 | 6 | 12 | 4 | | | | | | |
| | | 5 | More than 15, up to 20 hrs | 7 | 5 | 42 | 3 | 172 | 4 | 7 | 2 | | | | | | |
| | | 6 | More than 20, up to 25 hrs | 4 | 3 | 20 | 2 | 89 | 2 | 4 | 1 | | | | | | |
| | | 7 | More than 25 hrs | 2 | 1 | 11 | 1 | 45 | 1 | 3 | 1 | | | | | | |
| | | | Total | 146 | 100 | 1,321 | 100 | 4,459 | 100 | 288 | 100 | | | | | | |

17. How much has your experience at this institution contributed to your knowledge, skills, and personal development in the following areas?

| | | | | | | | | | | | | | | | | | | |
|--|-----------|---|-------------|-----|-----|-------|-----|-------|-----|-----|-----|-----|-----|------|-------|------|-----|------|
| a. Writing clearly and effectively | pgwrite | 1 | Very little | 11 | 8 | 138 | 10 | 495 | 11 | 32 | 11 | 2.7 | 2.7 | .04 | 2.7 | .02 | 2.7 | .01 |
| | | 2 | Some | 49 | 34 | 422 | 32 | 1,345 | 30 | 83 | 29 | | | | | | | |
| | | 3 | Quite a bit | 58 | 40 | 515 | 39 | 1,695 | 38 | 116 | 40 | | | | | | | |
| | | 4 | Very much | 28 | 19 | 258 | 19 | 933 | 21 | 58 | 20 | | | | | | | |
| | | | Total | 146 | 100 | 1,333 | 100 | 4,468 | 100 | 289 | 100 | | | | | | | |
| b. Speaking clearly and effectively | pgspeak | 1 | Very little | 18 | 12 | 166 | 12 | 511 | 11 | 32 | 11 | 2.6 | 2.6 | -.02 | 2.7 | -.08 | 2.7 | -.09 |
| | | 2 | Some | 50 | 34 | 429 | 32 | 1,354 | 30 | 84 | 29 | | | | | | | |
| | | 3 | Quite a bit | 51 | 35 | 478 | 36 | 1,661 | 37 | 116 | 40 | | | | | | | |
| | | 4 | Very much | 28 | 19 | 258 | 19 | 943 | 21 | 57 | 20 | | | | | | | |
| | | | Total | 147 | 100 | 1,331 | 100 | 4,469 | 100 | 289 | 100 | | | | | | | |
| c. Thinking critically and analytically | pgthink | 1 | Very little | 2 | 1 | 39 | 3 | 115 | 3 | 9 | 3 | 3.2 | 3.3 | -.14 | 3.3 * | -.17 | 3.3 | -.17 |
| | | 2 | Some | 30 | 21 | 167 | 13 | 498 | 11 | 31 | 11 | | | | | | | |
| | | 3 | Quite a bit | 49 | 34 | 449 | 34 | 1,612 | 36 | 102 | 35 | | | | | | | |
| | | 4 | Very much | 64 | 44 | 674 | 51 | 2,245 | 50 | 147 | 51 | | | | | | | |
| | | | Total | 145 | 100 | 1,329 | 100 | 4,470 | 100 | 289 | 100 | | | | | | | |
| d. Analyzing numerical and statistical information | pganalyze | 1 | Very little | 6 | 4 | 31 | 2 | 75 | 2 | 8 | 3 | 3.3 | 3.4 | -.09 | 3.4 | -.10 | 3.4 | -.05 |
| | | 2 | Some | 16 | 11 | 155 | 12 | 477 | 11 | 35 | 12 | | | | | | | |
| | | 3 | Quite a bit | 47 | 32 | 382 | 29 | 1,442 | 32 | 84 | 29 | | | | | | | |
| | | 4 | Very much | 78 | 53 | 765 | 57 | 2,482 | 55 | 162 | 56 | | | | | | | |
| | | | Total | 147 | 100 | 1,333 | 100 | 4,476 | 100 | 289 | 100 | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | | |
|---|----------------------------|---------------------|------------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|--------|--------------------------|--------|--------------------------|-------|--------------------------|--|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| | | | | | | | | | | | | Mean | | Effect size ⁿ | | Effect size ⁿ | | | |
| Item wording or description | Variable name ^l | Values ^m | Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ | |
| e. Acquiring job- or work-related knowledge and skills | pgwork | 1 | Very little | 11 | 7 | 103 | 8 | 346 | 8 | 29 | 10 | 2.9 | 2.9 | -.05 | 3.0 | -.06 | 2.8 | .06 | |
| | | 2 | Some | 41 | 28 | 304 | 23 | 1,040 | 23 | 72 | 25 | | | | | | | | |
| | | 3 | Quite a bit | 47 | 32 | 488 | 37 | 1,557 | 35 | 104 | 36 | | | | | | | | |
| | | 4 | Very much | 48 | 33 | 433 | 33 | 1,528 | 34 | 84 | 29 | | | | | | | | |
| | | Total | | 147 | 100 | 1,328 | 100 | 4,471 | 100 | 289 | 100 | | | | | | | | |
| f. Working effectively with others | pgothers | 1 | Very little | 17 | 12 | 50 | 4 | 191 | 4 | 11 | 4 | 2.8 | 3.0 ** | -.27 | 3.1 ** | -.30 | 2.9 | -.18 | |
| | | 2 | Some | 34 | 23 | 294 | 22 | 936 | 21 | 71 | 25 | | | | | | | | |
| | | 3 | Quite a bit | 58 | 39 | 557 | 42 | 1,786 | 40 | 129 | 45 | | | | | | | | |
| | | 4 | Very much | 38 | 26 | 431 | 32 | 1,551 | 35 | 78 | 27 | | | | | | | | |
| | | Total | | 147 | 100 | 1,332 | 100 | 4,464 | 100 | 289 | 100 | | | | | | | | |
| g. Developing or clarifying a personal code of values and ethics | pgvalues | 1 | Very little | 24 | 16 | 228 | 17 | 694 | 16 | 51 | 18 | 2.6 | 2.5 | .02 | 2.6 | -.05 | 2.4 | .12 | |
| | | 2 | Some | 46 | 32 | 422 | 32 | 1,356 | 30 | 99 | 34 | | | | | | | | |
| | | 3 | Quite a bit | 47 | 32 | 416 | 31 | 1,454 | 33 | 97 | 34 | | | | | | | | |
| | | 4 | Very much | 29 | 20 | 265 | 20 | 965 | 22 | 41 | 14 | | | | | | | | |
| | | Total | | 146 | 100 | 1,331 | 100 | 4,469 | 100 | 288 | 100 | | | | | | | | |
| h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.) | pgdiverse | 1 | Very little | 31 | 21 | 215 | 16 | 918 | 21 | 49 | 17 | 2.4 | 2.5 | -.09 | 2.4 | -.02 | 2.4 | .04 | |
| | | 2 | Some | 54 | 37 | 482 | 36 | 1,556 | 35 | 124 | 43 | | | | | | | | |
| | | 3 | Quite a bit | 35 | 24 | 406 | 31 | 1,234 | 28 | 79 | 27 | | | | | | | | |
| | | 4 | Very much | 27 | 18 | 226 | 17 | 761 | 17 | 37 | 13 | | | | | | | | |
| | | Total | | 147 | 100 | 1,329 | 100 | 4,469 | 100 | 289 | 100 | | | | | | | | |
| i. Solving complex real-world problems | pgprobsolve | 1 | Very little | 9 | 6 | 85 | 6 | 318 | 7 | 18 | 6 | 2.9 | 3.0 | -.08 | 2.9 | -.04 | 2.9 | .02 | |
| | | 2 | Some | 42 | 29 | 315 | 24 | 1,105 | 25 | 79 | 27 | | | | | | | | |
| | | 3 | Quite a bit | 50 | 34 | 488 | 37 | 1,582 | 35 | 114 | 39 | | | | | | | | |
| | | 4 | Very much | 45 | 31 | 443 | 33 | 1,459 | 33 | 79 | 27 | | | | | | | | |
| | | Total | | 146 | 100 | 1,331 | 100 | 4,464 | 100 | 290 | 100 | | | | | | | | |
| j. Being an informed and active citizen | pgcitizen | 1 | Very little | 31 | 21 | 275 | 21 | 1,120 | 25 | 69 | 24 | 2.4 | 2.3 | .05 | 2.3 | .11 | 2.1 * | .25 | |
| | | 2 | Some | 51 | 35 | 526 | 39 | 1,668 | 37 | 133 | 46 | | | | | | | | |
| | | 3 | Quite a bit | 43 | 29 | 353 | 27 | 1,091 | 24 | 64 | 22 | | | | | | | | |
| | | 4 | Very much | 21 | 14 | 178 | 13 | 592 | 13 | 23 | 8 | | | | | | | | |
| | | Total | | 146 | 100 | 1,332 | 100 | 4,471 | 100 | 289 | 100 | | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Aero and Engineering

University of North Dakota

Seniors^a in Aero and Engineering

| | | | | Frequency Distributions | | | | | | | | Statistical Comparisons ^k | | | | | | |
|---|-------------------------------|---------------------|------------------|-------------------------|-----|---------------|-----|----------------|-----|---------|-----|--------------------------------------|------|-----------------------------|------|-----------------------------|------|-----------------------------|
| | | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Your seniors compared with | | | | |
| Item wording or description | Variable name ^l | Values ^m | Response options | Count | | Count | | Count | | Count | | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ |
| | | | | | % | | % | | % | | % | | | | | | | |
| 18. How would you evaluate your entire educational experience at this institution? | | | | | | | | | | | | | | | | | | |
| | evalexp | 1 | Poor | 5 | 3 | 51 | 4 | 170 | 4 | 7 | 2 | 3.1 | 3.1 | .00 | 3.1 | -.05 | 3.1 | -.05 |
| | | 2 | Fair | 16 | 11 | 182 | 14 | 638 | 14 | 41 | 14 | | | | | | | |
| | | 3 | Good | 89 | 61 | 714 | 53 | 2,176 | 48 | 153 | 53 | | | | | | | |
| | | 4 | Excellent | 37 | 25 | 388 | 29 | 1,504 | 34 | 88 | 30 | | | | | | | |
| | | | Total | 147 | 100 | 1,335 | 100 | 4,488 | 100 | 289 | 100 | | | | | | | |
| 19. If you could start over again, would you go to the same institution you are now attending? | | | | | | | | | | | | | | | | | | |
| | sameinst | 1 | Definitely no | 2 | 1 | 63 | 5 | 241 | 5 | 14 | 5 | 3.1 | 3.1 | .03 | 3.1 | .02 | 3.2 | -.08 |
| | | 2 | Probably no | 19 | 13 | 174 | 13 | 632 | 14 | 24 | 8 | | | | | | | |
| | | 3 | Probably yes | 83 | 56 | 654 | 49 | 1,955 | 44 | 144 | 49 | | | | | | | |
| | | 4 | Definitely yes | 43 | 29 | 445 | 33 | 1,660 | 37 | 109 | 37 | | | | | | | |
| | | | Total | 147 | 100 | 1,336 | 100 | 4,488 | 100 | 291 | 100 | | | | | | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Aero and Engineering

University of North Dakota

Aero and Engineering

| | | | First-Year Students ^a | | | | | | | | Seniors ^a | | | | | | | | | |
|---|--|---|----------------------------------|-----|---------------|-----|----------------|-----|---------|-----|----------------------|-----|---------------|-----|----------------|-----|---------|-----|---|---|
| | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | | | |
| Item wording or description | Variable name | Response options | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | | |
| 21a. How many majors do you plan to complete? (Do not count minors.) | MAJnum | One | 56 | 95 | 794 | 91 | 3,438 | 90 | 157 | 90 | 127 | 87 | 1,179 | 88 | 3,968 | 88 | 259 | 89 | | |
| | | More than one | 3 | 5 | 74 | 9 | 403 | 10 | 17 | 10 | 19 | 13 | 156 | 12 | 523 | 12 | 31 | 11 | | |
| Total | | | 59 | 100 | 868 | 100 | 3,841 | 100 | 174 | 100 | 146 | 100 | 1,335 | 100 | 4,491 | 100 | 290 | 100 | | |
| First major or expected first major, in NSSE's default related-major categories. (This does not reflect any customization made for the Major Field Report.) | MAJfirstcol <i>(Recoded from MAJfirst.)</i> | Arts & Humanities | 0 | 0 | 1 | 0 | 7 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 8 | 0 | 2 | 1 | | |
| | | Biological Sci., Agriculture, & Natural Resources | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 1 | 1 | 6 | 0 | 7 | 0 | 1 | 0 | | |
| | | Physical Sci., Mathematics, & Computer Science | 6 | 10 | 62 | 7 | 142 | 4 | 12 | 7 | 9 | 6 | 84 | 6 | 183 | 4 | 21 | 7 | | |
| | | Social Sciences | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 9 | 0 | 0 | 0 | | |
| | | Business | 0 | 0 | 2 | 0 | 11 | 0 | 0 | 0 | 2 | 1 | 3 | 0 | 13 | 0 | 0 | 0 | | |
| | | Communications, Media, & Public Relations | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | |
| | | Education | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 0 |
| | | Engineering | 53 | 90 | 803 | 92 | 3,686 | 95 | 165 | 93 | 136 | 91 | 1,244 | 92 | 4,286 | 95 | 269 | 91 | | |
| | | Health Professions | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 0 | | |
| | | Social Service Professions | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | | |
| | | All Other | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 1 | 1 | 3 | 0 | 5 | 0 | 0 | 0 | | |
| | | Undecided, Undeclared | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | Total | 59 | 100 | 875 | 100 | 3,869 | 100 | 178 | 100 | 149 | 100 | 1,348 | 100 | 4,516 | 100 | 294 | 100 | | |
| Second major or expected second major, in NSSE's default related-major categories. (This does not reflect any customization made for the Major Field Report.) | MAJsecondcol <i>(Recoded from MAJsecond.)</i> | Arts & Humanities | 1 | 33 | 6 | 8 | 52 | 13 | 1 | 6 | 1 | 5 | 11 | 7 | 81 | 16 | 3 | 10 | | |
| | | Biological Sci., Agriculture, & Natural Resources | 0 | 0 | 1 | 1 | 8 | 2 | 1 | 6 | 1 | 5 | 7 | 4 | 25 | 5 | 6 | 19 | | |
| | | Physical Sci., Mathematics, & Computer Science | 0 | 0 | 24 | 32 | 86 | 22 | 7 | 41 | 4 | 21 | 43 | 28 | 114 | 22 | 14 | 45 | | |
| | | Social Sciences | 0 | 0 | 3 | 4 | 22 | 6 | 1 | 6 | 2 | 11 | 5 | 3 | 21 | 4 | 1 | 3 | | |
| | | Business | 0 | 0 | 4 | 5 | 29 | 7 | 0 | 0 | 1 | 5 | 8 | 5 | 28 | 5 | 0 | 0 | | |
| | | Communications, Media, & Public Relations | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 6 | 1 | 5 | 0 | 0 | 2 | 0 | 1 | 3 | | |
| | | Education | 0 | 0 | 1 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | | |
| | | Engineering | 1 | 33 | 28 | 38 | 159 | 40 | 5 | 29 | 8 | 42 | 62 | 40 | 196 | 38 | 4 | 13 | | |
| | | Health Professions | 0 | 0 | 3 | 4 | 10 | 3 | 1 | 6 | 0 | 0 | 5 | 3 | 4 | 1 | 1 | 3 | | |
| | | Social Service Professions | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | | |
| | | All Other | 1 | 33 | 1 | 1 | 10 | 3 | 0 | 0 | 1 | 5 | 6 | 4 | 19 | 4 | 1 | 3 | | |
| | | Undecided, Undeclared | 0 | 0 | 2 | 3 | 19 | 5 | 0 | 0 | 0 | 0 | 9 | 6 | 17 | 3 | 0 | 0 | | |
| | | Total | 3 | 100 | 74 | 100 | 400 | 100 | 17 | 100 | 19 | 100 | 156 | 100 | 514 | 100 | 31 | 100 | | |
| 22. What is your class level? | class | Freshman/First-year | 58 | 98 | 803 | 93 | 3,496 | 92 | 165 | 94 | 3 | 2 | 7 | 1 | 10 | 0 | 1 | 0 | | |
| | | Sophomore | 0 | 0 | 49 | 6 | 256 | 7 | 7 | 4 | 10 | 7 | 22 | 2 | 67 | 1 | 7 | 2 | | |
| | | Junior | 1 | 2 | 6 | 1 | 40 | 1 | 0 | 0 | 32 | 22 | 224 | 17 | 631 | 14 | 64 | 22 | | |
| | | Senior | 0 | 0 | 2 | 0 | 8 | 0 | 4 | 2 | 97 | 66 | 1,064 | 80 | 3,684 | 82 | 213 | 74 | | |
| | | Unclassified | 0 | 0 | 5 | 1 | 17 | 0 | 0 | 0 | 6 | 4 | 13 | 1 | 75 | 2 | 4 | 1 | | |
| | | Total | 59 | 100 | 865 | 100 | 3,817 | 100 | 176 | 100 | 148 | 100 | 1,330 | 100 | 4,467 | 100 | 289 | 100 | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Aero and Engineering University of North Dakota

Aero and Engineering

| | | | First-Year Students ^a | | | | | | | | Seniors ^a | | | | | | | |
|---|---------------|---------------------------|----------------------------------|-----|---------------|-----|----------------|-----|---------|-----|----------------------|-----|---------------|-----|----------------|-----|---------|-----|
| | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| Item wording or description | Variable name | Response options | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % |
| 23. Thinking about this current academic term, are you a full-time student? | fulltime | No | 3 | 5 | 16 | 2 | 71 | 2 | 4 | 2 | 55 | 37 | 137 | 10 | 635 | 14 | 20 | 7 |
| | | Yes | 56 | 95 | 843 | 98 | 3,738 | 98 | 171 | 98 | 92 | 63 | 1,183 | 90 | 3,807 | 86 | 269 | 93 |
| | | Total | 59 | 100 | 859 | 100 | 3,809 | 100 | 175 | 100 | 147 | 100 | 1,320 | 100 | 4,442 | 100 | 289 | 100 |
| 24a. How many courses are you taking for credit this current academic term? | coursenum | 0 | 0 | 0 | 2 | 0 | 9 | 0 | 1 | 1 | 0 | 0 | 3 | 0 | 88 | 2 | 2 | 1 |
| | | 1 | 1 | 2 | 3 | 0 | 11 | 0 | 0 | 0 | 5 | 3 | 14 | 1 | 100 | 2 | 2 | 1 |
| | | 2 | 2 | 3 | 6 | 1 | 29 | 1 | 2 | 1 | 24 | 16 | 43 | 3 | 207 | 5 | 4 | 1 |
| | | 3 | 0 | 0 | 51 | 6 | 66 | 2 | 4 | 2 | 24 | 16 | 102 | 8 | 318 | 7 | 16 | 6 |
| | | 4 | 4 | 7 | 306 | 35 | 731 | 19 | 54 | 31 | 26 | 18 | 501 | 38 | 1,156 | 26 | 97 | 33 |
| | | 5 | 26 | 44 | 326 | 38 | 1,636 | 43 | 82 | 47 | 34 | 23 | 398 | 30 | 1,549 | 35 | 114 | 39 |
| | | 6 | 15 | 25 | 105 | 12 | 862 | 23 | 17 | 10 | 14 | 9 | 132 | 10 | 646 | 14 | 33 | 11 |
| | | 7 or more | 11 | 19 | 66 | 8 | 478 | 13 | 15 | 9 | 21 | 14 | 136 | 10 | 405 | 9 | 22 | 8 |
| Total | 59 | 100 | 865 | 100 | 3,822 | 100 | 175 | 100 | 148 | 100 | 1,329 | 100 | 4,469 | 100 | 290 | 100 | | |
| b. Of these, how many are entirely online ? | onlinenum | 0 | 51 | 88 | 726 | 85 | 3,373 | 89 | 142 | 82 | 62 | 42 | 987 | 75 | 3,565 | 80 | 220 | 76 |
| | | 1 | 4 | 7 | 105 | 12 | 347 | 9 | 29 | 17 | 16 | 11 | 258 | 20 | 590 | 13 | 56 | 19 |
| | | 2 | 2 | 3 | 18 | 2 | 47 | 1 | 1 | 1 | 26 | 18 | 40 | 3 | 161 | 4 | 7 | 2 |
| | | 3 | 1 | 2 | 9 | 1 | 16 | 0 | 1 | 1 | 23 | 16 | 19 | 1 | 62 | 1 | 4 | 1 |
| | | 4 | 0 | 0 | 1 | 0 | 8 | 0 | 0 | 0 | 7 | 5 | 6 | 0 | 38 | 1 | 0 | 0 |
| | | 5 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 10 | 7 | 2 | 0 | 12 | 0 | 1 | 0 |
| | | 6 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 1 | 1 | 3 | 0 | 9 | 0 | 1 | 0 |
| | | 7 or more | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 2 | 6 | 0 | 13 | 0 | 1 | 0 |
| Total | 58 | 100 | 859 | 100 | 3,809 | 100 | 173 | 100 | 148 | 100 | 1,321 | 100 | 4,450 | 100 | 290 | 100 | | |
| Collapsed recode of courses taken online (Based on responses to coursenum and onlinenum.) | onlinecscol | No courses taken online | 51 | 88 | 726 | 85 | 3,373 | 89 | 142 | 82 | 62 | 42 | 987 | 75 | 3,565 | 80 | 220 | 76 |
| | | Some courses taken online | 4 | 7 | 125 | 15 | 397 | 10 | 31 | 18 | 23 | 16 | 302 | 23 | 728 | 16 | 68 | 23 |
| | | All courses taken online | 3 | 5 | 8 | 1 | 39 | 1 | 0 | 0 | 63 | 43 | 32 | 2 | 157 | 4 | 2 | 1 |
| | | Total | 58 | 100 | 859 | 100 | 3,809 | 100 | 173 | 100 | 148 | 100 | 1,321 | 100 | 4,450 | 100 | 290 | 100 |
| 25. What have most of your grades been up to now at this institution? | grades | C- or lower | 0 | 0 | 12 | 1 | 55 | 1 | 2 | 1 | 1 | 1 | 4 | 0 | 25 | 1 | 0 | 0 |
| | | C | 2 | 3 | 21 | 2 | 85 | 2 | 3 | 2 | 3 | 2 | 28 | 2 | 122 | 3 | 12 | 4 |
| | | C+ | 1 | 2 | 26 | 3 | 152 | 4 | 11 | 6 | 8 | 5 | 56 | 4 | 243 | 5 | 10 | 3 |
| | | B- | 2 | 3 | 42 | 5 | 267 | 7 | 3 | 2 | 14 | 9 | 97 | 7 | 395 | 9 | 34 | 12 |
| | | B | 9 | 15 | 136 | 16 | 678 | 18 | 28 | 16 | 37 | 25 | 262 | 20 | 910 | 20 | 60 | 21 |
| | | B+ | 8 | 14 | 138 | 16 | 689 | 18 | 22 | 13 | 20 | 14 | 231 | 17 | 815 | 18 | 53 | 18 |
| | | A- | 9 | 15 | 185 | 21 | 787 | 21 | 40 | 23 | 15 | 10 | 242 | 18 | 835 | 19 | 54 | 19 |
| | | A | 28 | 47 | 302 | 35 | 1,101 | 29 | 67 | 38 | 50 | 34 | 409 | 31 | 1,111 | 25 | 67 | 23 |
| Total | 59 | 100 | 862 | 100 | 3,814 | 100 | 176 | 100 | 148 | 100 | 1,329 | 100 | 4,456 | 100 | 290 | 100 | | |
| 26. Did you begin college at this institution or elsewhere? | begincol | Started here | 56 | 95 | 794 | 92 | 3,566 | 94 | 166 | 95 | 57 | 39 | 844 | 64 | 2,930 | 66 | 188 | 65 |
| | | Started elsewhere | 3 | 5 | 69 | 8 | 240 | 6 | 9 | 5 | 91 | 61 | 483 | 36 | 1,523 | 34 | 102 | 35 |
| | | Total | 59 | 100 | 863 | 100 | 3,806 | 100 | 175 | 100 | 148 | 100 | 1,327 | 100 | 4,453 | 100 | 290 | 100 |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Aero and Engineering

University of North Dakota

Aero and Engineering

First-Year Students^a

Seniors^a

| Item wording or description | Variable name | Response options | First-Year Students ^a | | | | Seniors ^a | | | | | | | | | | | |
|--|--|---|----------------------------------|-----|---------------|-----|----------------------|-----|---------|-----|-------|-----|---------------|-----|----------------|-----|---------|-----|
| | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| | | | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % |
| 27. Since graduating from high school, which of the following types of schools have you attended <i>other than</i> the one you are now attending? (Select all that apply.) | attend_voc | Vocational or technical school | 3 | 5 | 25 | 3 | 84 | 2 | 1 | 1 | 22 | 15 | 69 | 5 | 205 | 5 | 16 | 6 |
| | attend_com | Community or junior college | 3 | 5 | 73 | 8 | 292 | 8 | 10 | 6 | 63 | 43 | 459 | 35 | 1,464 | 33 | 82 | 28 |
| | attend_col | 4-year college or university other than this one | 3 | 5 | 64 | 7 | 251 | 7 | 13 | 8 | 68 | 46 | 319 | 24 | 953 | 21 | 61 | 21 |
| | attend_none | None | 52 | 88 | 687 | 80 | 3,099 | 82 | 147 | 85 | 44 | 30 | 633 | 48 | 2,277 | 51 | 147 | 51 |
| | attend_other | Other | 2 | 3 | 28 | 3 | 116 | 3 | 4 | 2 | 8 | 5 | 48 | 4 | 157 | 4 | 9 | 3 |
| 28. What is the highest level of education you ever expect to complete? | edaspire | Some college but less than a bachelor's degree | 3 | 5 | 53 | 6 | 166 | 4 | 9 | 5 | 14 | 9 | 82 | 6 | 243 | 5 | 17 | 6 |
| | | Bachelor's degree (B.A., B.S., etc.) | 26 | 44 | 387 | 45 | 1,397 | 37 | 77 | 44 | 71 | 48 | 561 | 42 | 1,684 | 38 | 131 | 45 |
| | | Master's degree (M.A., M.S., etc.) | 27 | 46 | 319 | 37 | 1,711 | 45 | 68 | 39 | 48 | 32 | 509 | 38 | 1,924 | 43 | 92 | 32 |
| | | Doctoral or professional degree (Ph.D., J.D., M.D., etc.) | 3 | 5 | 102 | 12 | 522 | 14 | 21 | 12 | 15 | 10 | 174 | 13 | 604 | 14 | 50 | 17 |
| | | Total | 59 | 100 | 861 | 100 | 3,796 | 100 | 175 | 100 | 148 | 100 | 1,326 | 100 | 4,455 | 100 | 290 | 100 |
| 29. What is the highest level of education completed by either of your parents (or those who raised you)? | parented | Did not finish high school | 0 | 0 | 36 | 4 | 149 | 4 | 7 | 4 | 4 | 3 | 35 | 3 | 180 | 4 | 8 | 3 |
| | | High school diploma or G.E.D. | 4 | 7 | 88 | 10 | 467 | 12 | 12 | 7 | 25 | 17 | 133 | 10 | 576 | 13 | 23 | 8 |
| | | Attended college, but did not complete degree | 1 | 2 | 60 | 7 | 304 | 8 | 11 | 6 | 16 | 11 | 96 | 7 | 343 | 8 | 17 | 6 |
| | | Associate's degree (A.A., A.S., etc.) | 5 | 8 | 58 | 7 | 299 | 8 | 14 | 8 | 22 | 15 | 115 | 9 | 381 | 9 | 30 | 10 |
| | | Bachelor's degree (B.A., B.S., etc.) | 31 | 53 | 325 | 38 | 1,283 | 34 | 58 | 33 | 42 | 28 | 514 | 39 | 1,519 | 34 | 116 | 40 |
| | | Master's degree (M.A., M.S., etc.) | 16 | 27 | 234 | 27 | 976 | 26 | 54 | 31 | 26 | 18 | 305 | 23 | 1,039 | 23 | 71 | 25 |
| | | Doctoral or professional degree (Ph.D., J.D., M.D., etc.) | 2 | 3 | 60 | 7 | 310 | 8 | 18 | 10 | 13 | 9 | 126 | 10 | 404 | 9 | 24 | 8 |
| | | Total | 59 | 100 | 861 | 100 | 3,788 | 100 | 174 | 100 | 148 | 100 | 1,324 | 100 | 4,442 | 100 | 289 | 100 |
| First-generation status (Neither parent holds a bachelor's degree.) | firstgen (Recoded from parented.) | Not first-generation | 49 | 83 | 619 | 72 | 2,569 | 68 | 130 | 75 | 81 | 55 | 945 | 71 | 2,962 | 67 | 211 | 73 |
| | | First-generation | 10 | 17 | 242 | 28 | 1,219 | 32 | 44 | 25 | 67 | 45 | 379 | 29 | 1,480 | 33 | 78 | 27 |
| | | Total | 59 | 100 | 861 | 100 | 3,788 | 100 | 174 | 100 | 148 | 100 | 1,324 | 100 | 4,442 | 100 | 289 | 100 |
| 30. What is your gender identity? | genderid | Man | 43 | 73 | 591 | 69 | 2,501 | 66 | 112 | 64 | 103 | 70 | 927 | 70 | 3,001 | 67 | 208 | 72 |
| | | Woman | 12 | 20 | 253 | 29 | 1,212 | 32 | 61 | 35 | 37 | 25 | 362 | 27 | 1,309 | 29 | 76 | 26 |
| | | Another gender identity | 0 | 0 | 6 | 1 | 32 | 1 | 0 | 0 | 2 | 1 | 17 | 1 | 67 | 2 | 2 | 1 |
| | | I prefer not to respond | 4 | 7 | 10 | 1 | 47 | 1 | 1 | 1 | 5 | 3 | 16 | 1 | 71 | 2 | 3 | 1 |
| | | Total | 59 | 100 | 860 | 100 | 3,792 | 100 | 174 | 100 | 147 | 100 | 1,322 | 100 | 4,448 | 100 | 289 | 100 |
| 31. Enter your year of birth (e.g., 1994): | agecat (Recoded from the information entered in birthyear.) | 19 or younger | 54 | 93 | 789 | 92 | 3,448 | 91 | 161 | 93 | 1 | 1 | 6 | 0 | 23 | 1 | 3 | 1 |
| | | 20-23 | 3 | 5 | 39 | 5 | 258 | 7 | 7 | 4 | 66 | 45 | 986 | 75 | 3,101 | 70 | 214 | 75 |
| | | 24-29 | 0 | 0 | 15 | 2 | 43 | 1 | 5 | 3 | 21 | 14 | 197 | 15 | 847 | 19 | 53 | 18 |
| | | 30-39 | 1 | 2 | 8 | 1 | 23 | 1 | 0 | 0 | 41 | 28 | 92 | 7 | 308 | 7 | 15 | 5 |
| | | 40-55 | 0 | 0 | 2 | 0 | 11 | 0 | 0 | 0 | 16 | 11 | 37 | 3 | 124 | 3 | 2 | 1 |
| | | Over 55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 8 | 0 | 0 | 0 |
| | | Total | 58 | 100 | 853 | 100 | 3,783 | 100 | 173 | 100 | 146 | 100 | 1,318 | 100 | 4,411 | 100 | 287 | 100 |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Aero and Engineering University of North Dakota

Aero and Engineering

| | | | First-Year Students ^a | | | | | | | | Seniors ^a | | | | | | | | |
|---|---|---|----------------------------------|-----|---------------|-------|----------------|-----|---------|-----|----------------------|-----|---------------|-------|----------------|-----|---------|-----|----|
| Item wording or description | Variable name | Response options | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | | |
| | | | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | |
| 32a. Are you an international student? | internat | No | 56 | 97 | 803 | 93 | 3,600 | 95 | 163 | 94 | 143 | 97 | 1,225 | 93 | 4,166 | 94 | 254 | 88 | |
| | | Yes | 2 | 3 | 56 | 7 | 185 | 5 | 11 | 6 | 4 | 3 | 97 | 7 | 275 | 6 | 35 | 12 | |
| | | Total | 58 | 100 | 859 | 100 | 3,785 | 100 | 174 | 100 | 147 | 100 | 1,322 | 100 | 4,441 | 100 | 289 | 100 | |
| | [If answered "yes"] Country of citizenship, collapsed into regions by NSSE. Responses to country are in the data file. | countrycol <i>(Recoded from country.)</i> | Africa Sub-Saharan | 0 | 0 | 7 | 15 | 25 | 16 | 0 | 0 | 3 | 75 | 4 | 5 | 18 | 8 | 1 | 3 |
| | | | Asia | 1 | 50 | 24 | 50 | 65 | 41 | 5 | 63 | 0 | 0 | 42 | 51 | 80 | 34 | 11 | 37 |
| | | | Canada | 1 | 50 | 0 | 0 | 4 | 3 | 0 | 0 | 1 | 25 | 1 | 1 | 16 | 7 | 10 | 33 |
| | | | Europe | 0 | 0 | 3 | 6 | 10 | 6 | 1 | 13 | 0 | 0 | 1 | 1 | 14 | 6 | 0 | 0 |
| | | | Latin America and Caribbean | 0 | 0 | 6 | 13 | 27 | 17 | 2 | 25 | 0 | 0 | 9 | 11 | 36 | 15 | 0 | 0 |
| | | | Middle East and North Africa | 0 | 0 | 8 | 17 | 28 | 18 | 0 | 0 | 0 | 0 | 25 | 30 | 72 | 30 | 8 | 27 |
| | | | Oceania | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Unknown region/uncoded | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | 2 | 100 | 48 | 100 | 160 | 100 | 8 | 100 | 4 | 100 | 82 | 100 | 237 | 100 | 30 | 100 | | | |
| 33. How would you describe yourself? (Select all that apply.) | re_amind | American Indian or Alaska Native | 1 | 2 | 18 | 2 | 64 | 2 | 4 | 2 | 4 | 3 | 20 | 2 | 62 | 1 | 4 | 1 | |
| | re_asian | Asian | 2 | 3 | 73 | 9 | 406 | 11 | 13 | 8 | 8 | 5 | 107 | 8 | 416 | 9 | 24 | 8 | |
| | re_black | Black or African American | 0 | 0 | 36 | 4 | 276 | 7 | 7 | 4 | 6 | 4 | 44 | 3 | 201 | 5 | 7 | 2 | |
| | re_latino | Hispanic or Latina/o | 1 | 2 | 44 | 5 | 513 | 14 | 12 | 7 | 3 | 2 | 67 | 5 | 493 | 11 | 19 | 7 | |
| | re_mena | Middle Eastern or N. African (2019) | 0 | 0 | 9 | 2 | 49 | 2 | 2 | 1 | 0 | 0 | 25 | 3 | 74 | 2 | 9 | 4 | |
| | re_pacific | Native Hawaiian/Other Pac. Islander | 1 | 2 | 8 | 1 | 36 | 1 | 1 | 1 | 2 | 1 | 9 | 1 | 40 | 1 | 0 | 0 | |
| | re_white | White | 52 | 88 | 693 | 81 | 2,660 | 70 | 142 | 82 | 120 | 82 | 1,040 | 79 | 3,248 | 74 | 238 | 83 | |
| | re_another | Another race or ethnicity (2019) | 0 | 0 | 3 | 1 | 38 | 1 | 0 | 0 | 1 | 1 | 9 | 1 | 30 | 1 | 1 | 0 | |
| | re_other | Other (2018) | 0 | 0 | 6 | 2 | 35 | 3 | 0 | 0 | 0 | 0 | 9 | 2 | 48 | 4 | 0 | 0 | |
| | re_pnr | I prefer not to respond | 4 | 7 | 25 | 3 | 107 | 3 | 5 | 3 | 10 | 7 | 51 | 4 | 183 | 4 | 9 | 3 | |
| | Racial or ethnic identification | re_all19 | American Indian or Alaska Native | 0 | 0 | 6 | 1 | 13 | 0 | 1 | 1 | 0 | 0 | 6 | 0 | 18 | 0 | 0 | 0 |
| | | <i>(Items re_amind to re_pnr recoded where each student is represented only once)</i> | Asian | 2 | 3 | 63 | 7 | 302 | 8 | 11 | 6 | 7 | 5 | 92 | 7 | 328 | 7 | 19 | 7 |
| | | Black or African American | 0 | 0 | 25 | 3 | 220 | 6 | 4 | 2 | 6 | 4 | 37 | 3 | 159 | 4 | 6 | 2 | |
| | | Hispanic or Latina/o | 0 | 0 | 27 | 3 | 351 | 9 | 6 | 3 | 1 | 1 | 38 | 3 | 334 | 8 | 7 | 2 | |
| | | Middle Eastern or N. African (2019) | 0 | 0 | 6 | 1 | 35 | 1 | 2 | 1 | 0 | 0 | 20 | 2 | 53 | 1 | 7 | 2 | |
| Native Hawaiian/Other Pac. Islander | | 1 | 2 | 1 | 0 | 7 | 0 | 0 | 0 | 1 | 1 | 7 | 1 | 7 | 0 | 0 | 0 | | |
| White | | 50 | 85 | 647 | 76 | 2,364 | 63 | 131 | 76 | 114 | 78 | 983 | 75 | 2,970 | 67 | 216 | 75 | | |
| Another race or ethnicity (2019) | | 0 | 0 | 1 | 0 | 13 | 0 | 0 | 0 | 1 | 1 | 7 | 1 | 16 | 0 | 1 | 0 | | |
| Other (2018) | | 0 | 0 | 4 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 34 | 1 | 0 | 0 | | |
| Multiracial | | 2 | 3 | 50 | 6 | 349 | 9 | 13 | 8 | 7 | 5 | 63 | 5 | 312 | 7 | 22 | 8 | | |
| I prefer not to respond | 4 | 7 | 25 | 3 | 107 | 3 | 5 | 3 | 10 | 7 | 51 | 4 | 183 | 4 | 9 | 3 | | | |
| Total | 59 | 100 | 855 | 100 | 3,777 | 100 | 173 | 100 | 147 | 100 | 1,312 | 100 | 4,414 | 100 | 287 | 100 | | | |
| 34. Are you a member of a social fraternity or sorority? | greek | No | 54 | 92 | 730 | 85 | 3,484 | 92 | 155 | 89 | 134 | 91 | 1,074 | 81 | 3,887 | 88 | 254 | 88 | |
| | | Yes | 5 | 8 | 128 | 15 | 307 | 8 | 19 | 11 | 14 | 9 | 246 | 19 | 549 | 12 | 35 | 12 | |
| | | Total | 59 | 100 | 858 | 100 | 3,791 | 100 | 174 | 100 | 148 | 100 | 1,320 | 100 | 4,436 | 100 | 289 | 100 | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Aero and Engineering

University of North Dakota

Aero and Engineering

| | | | First-Year Students ^a | | | | | | | | Seniors ^a | | | | | | | |
|---|-----------------------|---|----------------------------------|-----|---------------|-----|----------------|-----|---------|-----|----------------------|-----|---------------|-----|----------------|-----|---------|-----|
| Item wording or description | Variable name | Response options | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| | | | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % |
| 35. Which of the following best describes where you are living while attending college? | living18 | Campus housing (other than a fraternity or sorority house) | 47 | 80 | 627 | 73 | 2,747 | 73 | 129 | 74 | 12 | 8 | 100 | 8 | 594 | 13 | 38 | 13 |
| | | Fraternity or sorority house | 1 | 2 | 33 | 4 | 28 | 1 | 7 | 4 | 1 | 1 | 51 | 4 | 102 | 2 | 8 | 3 |
| | | House, apartment, or other residence within walking distance to campus | 2 | 3 | 56 | 7 | 249 | 7 | 9 | 5 | 38 | 26 | 519 | 39 | 1,405 | 32 | 131 | 45 |
| | | House, apartment, or other residence farther than walk. dist. to campus | 7 | 12 | 133 | 16 | 721 | 19 | 27 | 16 | 43 | 29 | 642 | 49 | 2,214 | 50 | 112 | 39 |
| | | Not applicable: No campus, entirely online program, etc. | 2 | 3 | 6 | 1 | 24 | 1 | 1 | 1 | 53 | 36 | 7 | 1 | 95 | 2 | 0 | 0 |
| | | Not applicable: Homeless or in transition | 0 | 0 | 2 | 0 | 6 | 0 | 1 | 1 | 1 | 1 | 2 | 0 | 21 | 0 | 0 | 0 |
| | | Total | 59 | 100 | 857 | 100 | 3,775 | 100 | 174 | 100 | 148 | 100 | 1,321 | 100 | 4,431 | 100 | 289 | 100 |
| 36. Are you a student-athlete on a team sponsored by your institution's athletics department? | athlete | No | 53 | 90 | 808 | 94 | 3,576 | 95 | 169 | 97 | 142 | 96 | 1,284 | 97 | 4,216 | 95 | 281 | 98 |
| | | Yes | 6 | 10 | 49 | 6 | 204 | 5 | 5 | 3 | 6 | 4 | 36 | 3 | 203 | 5 | 6 | 2 |
| | | Total | 59 | 100 | 857 | 100 | 3,780 | 100 | 174 | 100 | 148 | 100 | 1,320 | 100 | 4,419 | 100 | 287 | 100 |
| 37. Are you a current or former member of the U.S. Armed Forces, Reserves, or National Guard? | veteran | No | 56 | 95 | 833 | 97 | 3,713 | 98 | 172 | 98 | 126 | 85 | 1,227 | 93 | 4,144 | 94 | 276 | 96 |
| | | Yes | 3 | 5 | 24 | 3 | 60 | 2 | 3 | 2 | 22 | 15 | 91 | 7 | 286 | 6 | 13 | 4 |
| | | Total | 59 | 100 | 857 | 100 | 3,773 | 100 | 175 | 100 | 148 | 100 | 1,318 | 100 | 4,430 | 100 | 289 | 100 |
| 38a. Have you been diagnosed with any disability or impairment? | disability | No | 54 | 92 | 757 | 88 | 3,245 | 86 | 158 | 90 | 136 | 92 | 1,148 | 87 | 3,798 | 86 | 259 | 90 |
| | | Yes | 2 | 3 | 75 | 9 | 400 | 11 | 12 | 7 | 6 | 4 | 137 | 10 | 495 | 11 | 21 | 7 |
| | | I prefer not to respond | 3 | 5 | 25 | 3 | 138 | 4 | 5 | 3 | 6 | 4 | 38 | 3 | 148 | 3 | 9 | 3 |
| | | Total | 59 | 100 | 857 | 100 | 3,783 | 100 | 175 | 100 | 148 | 100 | 1,323 | 100 | 4,441 | 100 | 289 | 100 |
| b. [If answered "yes"] Which of the following has been diagnosed? (Select all that apply.) | dis_sense | A sensory impairment (vision or hearing) | 0 | 0 | 19 | 25 | 68 | 17 | 3 | 25 | 1 | 17 | 21 | 15 | 74 | 15 | 5 | 24 |
| | | dis_mobility | 0 | 0 | 6 | 8 | 14 | 4 | 0 | 0 | 1 | 17 | 12 | 9 | 35 | 7 | 1 | 5 |
| | | dis_learning | 0 | 0 | 28 | 37 | 187 | 47 | 4 | 33 | 3 | 50 | 60 | 44 | 231 | 47 | 9 | 43 |
| | | dis_mental | 2 | 100 | 37 | 49 | 145 | 36 | 5 | 42 | 2 | 33 | 54 | 40 | 194 | 39 | 7 | 33 |
| | | dis_other | 0 | 0 | 9 | 12 | 68 | 17 | 1 | 8 | 0 | 0 | 20 | 15 | 95 | 19 | 2 | 10 |
| | | Disability or impairment | disability_all | 0 | 0 | 12 | 1 | 44 | 1 | 3 | 2 | 1 | 1 | 15 | 1 | 47 | 1 | 5 |
| (Items dis_sense to dis_other recorded where each student is represented only once.) | A mobility impairment | 0 | 0 | 1 | 0 | 8 | 0 | 0 | 0 | 1 | 1 | 7 | 1 | 13 | 0 | 1 | 0 | |
| A learning disability | 0 | 0 | 16 | 2 | 136 | 4 | 3 | 2 | 2 | 1 | 41 | 3 | 150 | 3 | 6 | 2 | | |
| A mental health disorder | 2 | 3 | 22 | 3 | 91 | 2 | 4 | 2 | 1 | 1 | 33 | 2 | 115 | 3 | 5 | 2 | | |
| A disability or impairment not listed | 0 | 0 | 5 | 1 | 44 | 1 | 1 | 1 | 0 | 0 | 16 | 1 | 56 | 1 | 1 | 0 | | |
| More than one disability or impairment | 0 | 0 | 19 | 2 | 75 | 2 | 1 | 1 | 1 | 1 | 24 | 2 | 111 | 3 | 3 | 1 | | |
| No disability or impairment | 54 | 92 | 757 | 88 | 3,245 | 86 | 158 | 90 | 136 | 92 | 1,148 | 87 | 3,798 | 86 | 259 | 90 | | |
| Prefer not to respond | 3 | 5 | 25 | 3 | 138 | 4 | 5 | 3 | 6 | 4 | 38 | 3 | 148 | 3 | 9 | 3 | | |
| Total | 59 | 100 | 857 | 100 | 3,781 | 100 | 175 | 100 | 148 | 100 | 1,322 | 100 | 4,438 | 100 | 289 | 100 | | |

NSSE 2019 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Aero and Engineering

University of North Dakota

Aero and Engineering

First-Year Students^a

Seniors^a

| Item wording or description | Variable name | Response options | First-Year Students ^a | | | | Seniors ^a | | | | | | | | | | | |
|--|---------------|-------------------------------------|----------------------------------|------------|---------------|------------|----------------------|------------|--------------|------------|------------|------------|---------------|------------|----------------|------------|--------------|------------|
| | | | UND | | Plains Public | | Carnegie Class | | One UND | | UND | | Plains Public | | Carnegie Class | | One UND | |
| | | | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % |
| 39. Which of the following best describes your sexual orientation? | sexorient17 | Straight (heterosexual) | 52 | 88 | 748 | 88 | 3,260 | 86 | 149 | 86 | 119 | 80 | 1,176 | 89 | 3,819 | 86 | 253 | 88 |
| | | Bisexual | 1 | 2 | 42 | 5 | 196 | 5 | 11 | 6 | 10 | 7 | 44 | 3 | 178 | 4 | 10 | 3 |
| | | Gay | 1 | 2 | 6 | 1 | 39 | 1 | 0 | 0 | 1 | 1 | 10 | 1 | 63 | 1 | 4 | 1 |
| | | Lesbian | 0 | 0 | 6 | 1 | 30 | 1 | 1 | 1 | 2 | 1 | 9 | 1 | 36 | 1 | 1 | 0 |
| | | Queer | 0 | 0 | 1 | 0 | 18 | 0 | 0 | 0 | 1 | 1 | 3 | 0 | 19 | 0 | 1 | 0 |
| | | Questioning or unsure | 0 | 0 | 10 | 1 | 53 | 1 | 0 | 0 | 0 | 0 | 14 | 1 | 29 | 1 | 2 | 1 |
| | | Another sexual orientation | 1 | 2 | 7 | 1 | 49 | 1 | 3 | 2 | 2 | 1 | 17 | 1 | 70 | 2 | 3 | 1 |
| | | I prefer not to respond | 4 | 7 | 34 | 4 | 144 | 4 | 9 | 5 | 13 | 9 | 52 | 4 | 226 | 5 | 14 | 5 |
| Total | | | 59 | 100 | 854 | 100 | 3,789 | 100 | 173 | 100 | 148 | 100 | 1,325 | 100 | 4,440 | 100 | 288 | 100 |
| Institution-reported information (Variables provided by your institution in your NSSE population file.) | | | | | | | | | | | | | | | | | | |
| Institution-reported: Sex | IRsex19 | Female | 13 | 22 | 256 | 29 | 1,256 | 32 | 61 | 34 | 38 | 26 | 371 | 28 | 1,365 | 30 | 79 | 27 |
| | | Male | 46 | 78 | 619 | 71 | 2,612 | 67 | 117 | 66 | 111 | 74 | 977 | 72 | 3,149 | 70 | 215 | 73 |
| | | Another | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Unknown | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| | | Total | | | 59 | 100 | 875 | 100 | 3,870 | 100 | 178 | 100 | 149 | 100 | 1,348 | 100 | 4,516 | 100 |
| Institution-reported: Race or ethnicity | IRrace | American Indian or Alaska Native | 0 | 0 | 6 | 1 | 9 | 0 | 1 | 1 | 0 | 0 | 8 | 1 | 16 | 0 | 1 | 0 |
| | | Asian | 1 | 2 | 35 | 5 | 193 | 6 | 5 | 3 | 7 | 5 | 51 | 5 | 194 | 5 | 6 | 2 |
| | | Black or African American | 0 | 0 | 20 | 3 | 204 | 6 | 4 | 2 | 3 | 2 | 35 | 3 | 155 | 4 | 3 | 1 |
| | | Hispanic or Latino | 1 | 2 | 39 | 5 | 466 | 14 | 9 | 5 | 4 | 3 | 38 | 3 | 423 | 11 | 10 | 3 |
| | | Native Hawaiian/Other Pac. Islander | 0 | 0 | 1 | 0 | 41 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 37 | 1 | 0 | 0 |
| | | White | 54 | 92 | 575 | 74 | 2,091 | 62 | 135 | 76 | 121 | 81 | 836 | 75 | 2,686 | 68 | 214 | 73 |
| | | Other | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| | | Foreign or nonresident | 2 | 3 | 56 | 7 | 171 | 5 | 14 | 8 | 8 | 5 | 81 | 7 | 240 | 6 | 37 | 13 |
| | | Two or more races/ethnicities | 1 | 2 | 32 | 4 | 109 | 3 | 6 | 3 | 5 | 3 | 33 | 3 | 111 | 3 | 9 | 3 |
| Total | | | 59 | 100 | 772 | 100 | 3,394 | 100 | 177 | 100 | 149 | 100 | 1,108 | 100 | 3,965 | 100 | 293 | 100 |
| Institution-reported: Class level | IRclass | Freshman/First-Year | 59 | 100 | 875 | 100 | 3,870 | 100 | 178 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Sophomore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Junior | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Senior | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 149 | 100 | 1,348 | 100 | 4,516 | 100 | 294 | 100 |
| | | Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Total | | | 59 | 100 | 875 | 100 | 3,870 | 100 | 178 | 100 | 149 | 100 | 1,348 | 100 | 4,516 | 100 |
| Institution-reported: First-time first-year (FTFY) student | IRftfy | Not first-time first-year | 1 | 2 | 73 | 8 | 210 | 5 | 9 | 5 | 149 | 100 | 1,339 | 99 | 4,451 | 99 | 294 | 100 |
| | | First-time first-year | 58 | 98 | 802 | 92 | 3,659 | 95 | 169 | 95 | 0 | 0 | 9 | 1 | 65 | 1 | 0 | 0 |
| | | Total | | | 59 | 100 | 875 | 100 | 3,869 | 100 | 178 | 100 | 149 | 100 | 1,348 | 100 | 4,516 | 100 |
| Institution-reported: Enrollment status | IRenrollment | Not full-time | 2 | 3 | 11 | 1 | 73 | 2 | 0 | 0 | 59 | 40 | 147 | 11 | 545 | 12 | 16 | 5 |
| | | Full-time | 57 | 97 | 864 | 99 | 3,797 | 98 | 178 | 100 | 90 | 60 | 1,201 | 89 | 3,971 | 88 | 278 | 95 |
| | | Total | | | 59 | 100 | 875 | 100 | 3,870 | 100 | 178 | 100 | 149 | 100 | 1,348 | 100 | 4,516 | 100 |

Endnotes

- a. All results are unweighted.
- b. Standard deviation is a measure of the amount the individual scores deviate from the mean of all the scores in the distribution.
- c. Standard error of the mean, used to compute a confidence interval (CI) around the sample mean. For example, the 95% CI is the range of values that is 95% likely to contain the true population mean, equal to the sample mean $\pm 1.96 * SEM$.
- d. A percentile is the point in the distribution of student-level EI scores at or below which a given percentage of EI scores fall.
- e. Degrees of freedom used to compute the t -tests. Values differ from Ns due to whether equal variances were assumed.
- f. Statistical significance represents the probability that the difference between the mean of your institution and that of the comparison group occurred by chance: $*p < .05$, $**p < .01$, $***p < .001$ (2-tailed).
- g. Cohen's d : The mean difference divided by the pooled standard deviation. Effect size indicates the practical importance of an observed difference. For EI comparisons, NSSE research has concluded that an effect size of about .1 may be considered small, .3 medium, and .5 large (Rocconi & Gonyea, 2015). Comparisons with an effect size of at least .3 in magnitude (before rounding) are highlighted in the Overview.
- h. Percentage of students who responded "Done or in progress" except for service-learning which is the percentage who responded that at least "Some" courses included a community-based project.
- i. Percentage point differences (institution – comp. group) rounded to whole numbers. Values less than one may not display a bar and may be shown as +0 or -0.
 $*p < .05$, $**p < .01$, $***p < .001$ (z -test comparing participation rates).
- j. Cohen's h : The standardized difference between two proportions. Effect size indicates the practical importance of an observed difference. NSSE research has found that interpretations vary by HIP: For service-learning, internships, study abroad, and culminating senior experiences, an effect size of about .2 may be considered small, .5 medium, and .8 large. For learning community and research with faculty, an effect size of about .1 may be considered small, .3 medium, and .5 large (Rocconi & Gonyea, 2015).
- k. Means calculated from ordered response options (e.g., Very Often, Often, Sometimes, Never) assume equal intervals and should be interpreted with caution. Unless otherwise noted, statistical comparisons are two-tailed independent t -tests. Exceptions are the dichotomous high-impact practice items (11a to 11f) which are compared using a z -test.
- l. Items that make up the Engagement Indicators include the following two-letter prefixes: CL = Collaborative Learning, DD = Discussions with Diverse Others, ET = Effective Teaching Practices, HO = Higher-Order Learning, LS = Learning Strategies, QI = Quality of Interactions, QR = Quantitative Reasoning, RI = Reflective and Integrative Learning, SE = Supportive Environment, and SF = Student-Faculty Interaction.
- m. These are the values used to calculate means. For the majority of items, these values match the codes in the data file and codebook. For items estimating number of papers and hours per week, the values represent actual units using the midpoints of response option ranges and an estimate for unbounded options.
- n. Effect size for independent t -tests uses Cohen's d ; z -tests use Cohen's h .
- o. Statistical comparison uses z -test to compare the percentage who responded "Done or in progress."

Key to symbols:

- ▲ **Your students' average** was significantly higher ($p < .05$) with an effect size at least .3 in magnitude.
- △ **Your students' average** was significantly higher ($p < .05$) with an effect size less than .3 in magnitude.
- ▽ **Your students' average** was significantly lower ($p < .05$) with an effect size less than .3 in magnitude.
- ▼ **Your students' average** was significantly lower ($p < .05$) with an effect size at least .3 in magnitude.

Note: It is important to interpret the direction of differences relative to item wording and your institutional context.

Reference: Rocconi, L.M., & Gonyea, R.M. (2018). Contextualizing effect sizes in the National Survey of Student Engagement: An empirical analysis. *Research & Practice in Assessment*, 13 (Summer/Fall), pp. 22-38.