University of North Dakota NSSE 2017 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.



NSSE 2017 Major Field Report, Part II

About This Report

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

Related-major groups with fewer than 5 respondents in a given class are not reported (columns are blank). Groups containing at least 5 respondents, but fewer than 20, are reported in frequency distributions only. 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 (Els) 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 High-Impact Practices 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. |



Overview of Engagement Indicators: Aero and Engineering
University of North Dakota

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.

| | | First-Year S | tudents in Aero and | Engineering | Senio | rs in Aero and Engin | eering |
|---------------|-------------------------------------|--|--|--|----------------------------|----------------------------|----------------------------|
| | | 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 |
| Theme | Engagement Indicator | Plains Public Plus | Carnegie Class | NSSE 2016 & 2017 | Plains Public Plus | Carnegie Class | NSSE 2016 & 2017 |
| | Higher-Order Learning | ∇ | V | • | | | |
| Academic | Reflective & Integrative Learning | | • | V | | | |
| Challenge | Learning Strategies | | | ∇ | Δ | | |
| | Quantitative Reasoning | | | | Δ | Δ | Δ |
| Learning with | Collaborative Learning | | | | • | • | • |
| Peers | Discussions with Diverse Others | • | • | • | ∇ | ∇ | ∇ |
| Experiences | Student-Faculty Interaction | | ∇ | V | | ∇ | ∇ |
| with Faculty | Effective Teaching Practices | | ∇ | • | | | |
| Campus | Quality of Interactions | ∇ | | | ∇ | | ∇ |
| Environment | Supportive Environment | lacktriangle | | • | ∇ | ∇ | ∇ |



Engagement Indicators: Aero and Engineering

University of North Dakota

First-year students^a in Aero and Engineering

| Aero and Engineering | Mea | n statistics | | | Perce | ntile ^d scores | | | (| Comparison re | sults | |
|--|------|-----------------|------------------|-----|-------|---------------------------|------|------|------------------------------|---------------|-------------------|-------------------|
| | | | | | | | | | · | Mean | | Effect |
| | Mean | SD ^b | SEM ^c | 5th | 25th | 50th | 75th | 95th | Deg. of freedom ^e | diff. | Sig. ^f | size ^g |
| Academic Challenge | | | | | | | | | | | | |
| Higher-Order Learning | | | | | | | | | | | | |
| UND $(N = 59)$ | 33.5 | 12.9 | 1.68 | 10 | 25 | 35 | 40 | 55 | | | | |
| Plains Public Plus | 36.9 | 12.7 | .37 | 20 | 25 | 35 | 45 | 60 | 1,214 | -3.4 | * | 266 |
| Carnegie Class | 37.9 | 12.4 | .20 | 20 | 30 | 40 | 45 | 60 | 3,813 | -4.4 | ** | 355 |
| NSSE 2016 & 2017 | 38.3 | 12.6 | .10 | 20 | 30 | 40 | 45 | 60 | 16,949 | -4.8 | ** | 383 |
| Reflective & Integrative Learning | | | | | | | | | | | | |
| UND $(N = 60)$ | 28.6 | 10.1 | 1.30 | 10 | 23 | 31 | 37 | 41 | | | | |
| Plains Public Plus | 31.3 | 11.5 | .33 | 14 | 23 | 31 | 40 | 51 | 1,228 | -2.7 | | 239 |
| Carnegie Class | 32.6 | 11.2 | .18 | 14 | 26 | 31 | 40 | 54 | 3,873 | -3.9 | ** | 352 |
| NSSE 2016 & 2017 | 33.1 | 11.3 | .09 | 14 | 26 | 31 | 40 | 54 | 17,138 | -4.5 | ** | 397 |
| Learning Strategies | | | | | | | | | | | | |
| UND (N = 60) | 32.8 | 12.7 | 1.64 | 7 | 27 | 33 | 40 | 50 | | | | |
| Plains Public Plus | 34.9 | 13.2 | .39 | 13 | 27 | 33 | 40 | 60 | 1,220 | -2.1 | | 161 |
| Carnegie Class | 36.1 | 13.3 | .22 | 13 | 27 | 33 | 47 | 60 | 3,835 | -3.3 | | 251 |
| NSSE 2016 & 2017 | 36.6 | 13.3 | .10 | 13 | 27 | 40 | 47 | 60 | 17,016 | -3.8 | * | 286 |
| Quantitative Reasoning | | | | | | | | | | | | |
| UND $(N = 59)$ | 30.8 | 13.5 | 1.76 | 7 | 20 | 33 | 40 | 53 | | | | |
| Plains Public Plus | 30.7 | 14.2 | .42 | 7 | 20 | 27 | 40 | 60 | 1,225 | .1 | | .007 |
| Carnegie Class | 30.6 | 14.2 | .23 | 7 | 20 | 33 | 40 | 60 | 3,831 | .3 | | .018 |
| NSSE 2016 & 2017 | 31.2 | 14.3 | .11 | 7 | 20 | 33 | 40 | 60 | 16,977 | 3 | | 024 |
| Learning with Peers | | | | | | | | | | | | |
| Collaborative Learning | | | | | | | | | | | | |
| UND $(N = 60)$ | 36.6 | 13.1 | 1.69 | 13 | 30 | 35 | 45 | 60 | | | | |
| Plains Public Plus | 37.4 | 13.5 | .40 | 15 | 25 | 35 | 50 | 60 | 1,222 | 8 | | 058 |
| Carnegie Class | 37.2 | 13.6 | .22 | 15 | 25 | 40 | 45 | 60 | 3,850 | 6 | | 048 |
| NSSE 2016 & 2017 | 36.9 | 13.8 | .11 | 15 | 25 | 35 | 45 | 60 | 17,049 | 3 | | 025 |
| Discussions with Diverse Others | | | | | | | | | | | | |
| UND $(N = 60)$ | 34.1 | 14.0 | 1.80 | 5 | 25 | 35 | 40 | 60 | | | | |
| Plains Public Plus | 39.5 | 14.8 | .43 | 15 | 30 | 40 | 50 | 60 | 1,224 | -5.4 | ** | 366 |
| Carnegie Class | 40.0 | 15.1 | .25 | 15 | 30 | 40 | 55 | 60 | 3,851 | -6.0 | ** | 396 |
| NSSE 2016 & 2017 | 40.5 | 15.1 | .12 | 15 | 30 | 40 | 55 | 60 | 17,049 | -6.4 | ** | 425 |



Engagement Indicators: Aero and Engineering
University of North Dakota

First-year students^a in Aero and Engineering

| Aero and Engineering | Mea | n statistics | | | Percei | ntile ^d scores | | | (| Comparison re | sults | |
|-------------------------------------|------|-----------------|------------------|-----|--------|---------------------------|------|------|------------------------------|---------------|-------------------|-------------------|
| | - | | | - | | | | | - | Mean | | Effect |
| | Mean | SD ^b | SEM ^c | 5th | 25th | 50th | 75th | 95th | Deg. of freedom ^e | diff. | Sig. ^f | size ^g |
| Experiences with Faculty | | | | | | | | | | | | |
| Student-Faculty Interaction | | | | | | | | | | | | |
| UND $(N = 60)$ | 14.8 | 11.3 | 1.46 | 0 | 5 | 15 | 20 | 40 | | | | |
| Plains Public Plus | 17.6 | 13.2 | .39 | 0 | 10 | 15 | 25 | 40 | 1,217 | -2.8 | | 212 |
| Carnegie Class | 18.3 | 13.5 | .22 | 0 | 10 | 15 | 25 | 45 | 62 | -3.4 | * | 254 |
| NSSE 2016 & 2017 | 19.5 | 13.8 | .11 | 0 | 10 | 20 | 25 | 45 | 60 | -4.6 | ** | 335 |
| Effective Teaching Practices | | | | | | | | | | | | |
| UND $(N = 60)$ | 33.6 | 11.4 | 1.47 | 14 | 28 | 36 | 40 | 52 | | | | |
| Plains Public Plus | 36.6 | 12.2 | .36 | 16 | 28 | 36 | 44 | 60 | 1,232 | -3.0 | | 243 |
| Carnegie Class | 37.1 | 12.4 | .20 | 16 | 28 | 36 | 44 | 60 | 3,874 | -3.5 | * | 284 |
| NSSE 2016 & 2017 | 37.9 | 12.5 | .10 | 16 | 28 | 40 | 48 | 60 | 17,149 | -4.3 | ** | 343 |
| Campus Environment | | | | | | | | | | | | |
| Quality of Interactions | | | | | | | | | | | | |
| UND $(N = 59)$ | 39.6 | 11.9 | 1.55 | 20 | 32 | 40 | 48 | 56 | | | | |
| Plains Public Plus | 42.6 | 10.7 | .32 | 22 | 36 | 44 | 50 | 60 | 1,183 | -3.0 | * | 277 |
| Carnegie Class | 41.6 | 11.6 | .19 | 20 | 34 | 42 | 50 | 60 | 3,737 | -2.0 | | 175 |
| NSSE 2016 & 2017 | 42.2 | 11.6 | .09 | 20 | 36 | 44 | 50 | 60 | 16,369 | -2.6 | | 221 |
| Supportive Environment | | | | | | | | | | | | |
| UND $(N = 60)$ | 31.3 | 11.0 | 1.43 | 13 | 23 | 33 | 40 | 49 | | | | |
| Plains Public Plus | 36.5 | 12.7 | .37 | 15 | 28 | 35 | 45 | 60 | 1,226 | -5.2 | ** | 408 |
| Carnegie Class | 36.0 | 12.7 | .21 | 15 | 28 | 35 | 45 | 60 | 3,858 | -4.6 | ** | 365 |
| NSSE 2016 & 2017 | 36.5 | 13.0 | .10 | 15 | 28 | 38 | 45 | 60 | 17,111 | -5.2 | ** | 401 |



Engagement Indicators: Aero and Engineering

University of North Dakota

Seniors^a in

| Aero and Engineering | Mea | n statistics | | | Percer | ntile ^d scores | | | (| Comparison re | sults | |
|--|------|-----------------|------------------|-----|--------|---------------------------|------|------|------------------------------|---------------|-------------------|-------------------|
| | | | | | | | | | | Mean | | Effect |
| | Mean | SD ^b | SEM ^c | 5th | 25th | 50th | 75th | 95th | Deg. of freedom ^e | diff. | Sig. ^f | size ^g |
| Academic Challenge | | | | | | | | | | | | |
| Higher-Order Learning | | | | | | | | | | | | |
| UND $(N = 171)$ | 38.2 | 12.6 | .97 | 15 | 30 | 40 | 45 | 60 | | | | |
| Plains Public Plus | 36.7 | 13.3 | .34 | 15 | 25 | 40 | 45 | 60 | 1,712 | 1.4 | | .107 |
| Carnegie Class | 38.0 | 13.2 | .20 | 15 | 30 | 40 | 45 | 60 | 4,699 | .2 | | .011 |
| NSSE 2016 & 2017 | 38.5 | 13.2 | .09 | 15 | 30 | 40 | 50 | 60 | 21,429 | 3 | | 025 |
| Reflective & Integrative Learning | | | | | | | | | | | | |
| UND (N = 172) | 32.0 | 11.7 | .89 | 14 | 23 | 31 | 40 | 51 | | | | |
| Plains Public Plus | 31.7 | 11.4 | .29 | 14 | 23 | 31 | 40 | 51 | 1,732 | .2 | | .019 |
| Carnegie Class | 32.7 | 11.3 | .17 | 14 | 26 | 31 | 40 | 54 | 4,755 | 7 | | 062 |
| NSSE 2016 & 2017 | 33.1 | 11.6 | .08 | 14 | 26 | 31 | 40 | 54 | 21,620 | -1.1 | | 096 |
| Learning Strategies | | | | | | | | | | | | |
| UND $(N = 171)$ | 36.1 | 14.5 | 1.11 | 7 | 27 | 40 | 47 | 60 | | | | |
| Plains Public Plus | 33.1 | 14.2 | .36 | 13 | 20 | 33 | 40 | 60 | 1,704 | 3.0 | ** | .210 |
| Carnegie Class | 34.8 | 14.2 | .21 | 13 | 27 | 33 | 47 | 60 | 4,720 | 1.4 | | .096 |
| NSSE 2016 & 2017 | 35.2 | 14.4 | .10 | 13 | 27 | 33 | 47 | 60 | 21,447 | .9 | | .064 |
| Quantitative Reasoning | | | | | | | | | | | | |
| UND $(N = 168)$ | 38.6 | 14.6 | 1.13 | 13 | 27 | 40 | 47 | 60 | | | | |
| Plains Public Plus | 34.3 | 14.8 | .37 | 13 | 27 | 33 | 47 | 60 | 1,719 | 4.3 | *** | .294 |
| Carnegie Class | 34.9 | 14.8 | .22 | 13 | 27 | 33 | 47 | 60 | 4,713 | 3.7 | ** | .251 |
| NSSE 2016 & 2017 | 35.7 | 15.0 | .10 | 13 | 27 | 33 | 47 | 60 | 21,408 | 2.9 | * | .195 |
| Learning with Peers | | | | | | | | | | | | |
| Collaborative Learning | | | | | | | | | | | | |
| UND $(N = 173)$ | 33.6 | 16.5 | 1.26 | 5 | 20 | 35 | 45 | 60 | | | | |
| Plains Public Plus | 39.2 | 13.6 | .34 | 15 | 30 | 40 | 50 | 60 | 199 | -5.6 | *** | 401 |
| Carnegie Class | 40.1 | 13.7 | .20 | 15 | 30 | 40 | 50 | 60 | 181 | -6.5 | *** | 468 |
| NSSE 2016 & 2017 | 39.9 | 13.8 | .09 | 15 | 30 | 40 | 50 | 60 | 174 | -6.2 | *** | 451 |
| Discussions with Diverse Others | | | | | | | | | | | | |
| UND $(N = 173)$ | 36.3 | 17.4 | 1.32 | 0 | 20 | 35 | 50 | 60 | | | | |
| Plains Public Plus | 39.3 | 15.7 | .40 | 15 | 30 | 40 | 55 | 60 | 204 | -3.0 | * | 187 |
| Carnegie Class | 40.4 | 15.9 | .24 | 15 | 30 | 40 | 55 | 60 | 183 | -4.1 | ** | 258 |
| NSSE 2016 & 2017 | 40.7 | 15.9 | .11 | 15 | 30 | 40 | 55 | 60 | 174 | -4.4 | ** | 277 |



Engagement Indicators: Aero and Engineering

University of North Dakota

Seniors^a in

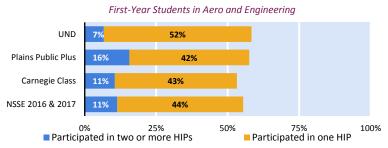
| Aero and Engineering | Mea | n statistics | | | Percer | ntile ^d scores | | | (| Comparison re | sults | |
|-------------------------------------|------|-----------------|------------------|-----|--------|---------------------------|------|------|------------------------------|---------------|-------------------|-------------------|
| | - | | | | | | | | - | Mean | | Effect |
| | Mean | SD ^b | SEM ^c | 5th | 25th | 50th | 75th | 95th | Deg. of freedom ^e | diff. | Sig. ^f | size ^g |
| Experiences with Faculty | | | | | | | | | | | | |
| Student-Faculty Interaction | | | | | | | | | | | | |
| UND $(N = 172)$ | 20.6 | 14.7 | 1.12 | 0 | 10 | 20 | 30 | 50 | | | | |
| Plains Public Plus | 22.3 | 14.6 | .37 | 0 | 10 | 20 | 30 | 50 | 1,721 | -1.8 | | 121 |
| Carnegie Class | 22.8 | 14.8 | .22 | 0 | 10 | 20 | 30 | 50 | 4,720 | -2.3 | * | 154 |
| NSSE 2016 & 2017 | 23.3 | 15.2 | .10 | 0 | 10 | 20 | 35 | 55 | 21,438 | -2.8 | * | 181 |
| Effective Teaching Practices | | | | | | | | | | | | |
| UND $(N = 172)$ | 35.8 | 12.4 | .95 | 16 | 28 | 36 | 44 | 60 | | | | |
| Plains Public Plus | 36.3 | 13.1 | .33 | 16 | 28 | 36 | 44 | 60 | 1,736 | 6 | | 044 |
| Carnegie Class | 36.5 | 12.8 | .19 | 16 | 28 | 36 | 44 | 60 | 4,756 | 8 | | 060 |
| NSSE 2016 & 2017 | 37.0 | 13.2 | .09 | 16 | 28 | 36 | 48 | 60 | 21,646 | -1.3 | | 096 |
| Campus Environment | | | | | | | | | | | | |
| Quality of Interactions | | | | | | | | | | | | |
| UND $(N = 158)$ | 38.8 | 11.3 | .90 | 18 | 32 | 40 | 48 | 54 | | | | |
| Plains Public Plus | 41.5 | 11.3 | .29 | 22 | 34 | 42 | 50 | 60 | 1,680 | -2.8 | ** | 245 |
| Carnegie Class | 40.4 | 11.6 | .17 | 20 | 34 | 42 | 48 | 60 | 4,593 | -1.6 | | 138 |
| NSSE 2016 & 2017 | 40.8 | 11.7 | .08 | 20 | 34 | 42 | 50 | 60 | 20,683 | -2.0 | * | 172 |
| Supportive Environment | | | | | | | | | | | | |
| UND $(N = 171)$ | 27.3 | 12.7 | .97 | 5 | 20 | 28 | 35 | 50 | | | | |
| Plains Public Plus | 30.6 | 13.1 | .33 | 10 | 20 | 30 | 40 | 53 | 1,733 | -3.2 | ** | 248 |
| Carnegie Class | 30.1 | 13.4 | .20 | 8 | 20 | 30 | 40 | 55 | 4,738 | -2.7 | ** | 204 |
| NSSE 2016 & 2017 | 30.9 | 13.6 | .09 | 8 | 20 | 30 | 40 | 55 | 21,568 | -3.6 | *** | 262 |

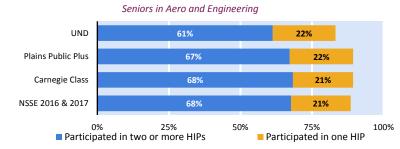


High-Impact Practices: Aero and Engineering
University of North Dakota

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.

| | | | Your | students' participation co | ompared with: | | |
|---|-----|-------------------------|-----------------|----------------------------|-----------------|-------------------------|-----------------|
| | UND | Plains Public Plus | | Carnegie Class | | NSSE 2016 & 2017 | |
| First-Year Students in Aero and Engineering | % | Difference ⁱ | ES ^j | Difference ⁱ | ES ^j | Difference ⁱ | ES ^j |
| 12. Service-Learning | 47 | -1 | 02 | +2 | .05 | -0 | 01 |
| 11c. Learning Community | 18 | -4 | 10 | +3 | .09 | +2 | .06 |
| 11e. Research with Faculty | 0 | -6 | 49 | -6 | 50 | -6 | 48 |
| Participated in at least one | 58 | +1 | .02 | +5 | .10 | +3 | .06 |
| Participated in two or more | 7 | -9 | 29 | -4 | 14 | -5 | 17 |
| Seniors in Aero and Engineering | | | | | | | |
| 12. Service-Learning | 37 | -6 | 13 | -10 | **21 | -10 | *19 |
| 11c. Learning Community | 24 | -3 | 07 | -1 | 02 | -1 | 03 |
| 11e. Research with Faculty | 25 | -5 | 12 | -8 | *17 | -8 | *18 |
| 11a. Internship or Field Exp. | 54 | -9 | *18 | -3 | 06 | -3 | 07 |
| 11d. Study Abroad | 7 | -4 | 14 | -4 | 16 | -6 | *20 |
| 11f. Culminating Senior Exp. | 46 | -4 | 09 | -10 | *20 | -10 | *19 |
| Participated in at least one | 83 | -6 | *18 | -6 | *18 | -5 | *15 |
| Participated in two or more | 61 | -6 | 12 | -7 | *15 | -6 | 13 |



Frequencies and Statistical Comparisons: Aero and Engineering

| First-Year Stu | dents ^a in | | | | | Frequer | ncy D | istribution | S | | | | Sta | atistical (| Comparis | ons ^k | | |
|-------------------------------------|-------------------------------|---------------------|------------------|-------|-----|---------------|-------|-------------|-----|-----------|-----|------|-----------|------------------|---------------|------------------|-----------|------------------|
| Aero and Engi | ineering | | | | | | | | | NSSE 2016 | s & | | | Your fir | st-year stude | nts compo | ared with | |
| | | | | UND | | Plains Public | Plus | Carnegie Cl | ass | 2017 | JQ | UND | Plains Pu | blic Plus | Carnegie | Class | NSSE 2016 | & 2017 |
| Item wording or description | Variable name ^I | Values ^m | Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size " | Mean | Effect size " | Mean | Effect size " |
| 1. During the current se | | | | | 70 | count | 70 | Count | 70 | count | 70 | Wear | mean | 3120 | Wicum | 3120 | Wedn | 3120 |
| a. Asked questions or | askquest | t now t | Never | 2 | 3 | 51 | 4 | 182 | 5 | 660 | 4 | | | | | | | |
| contributed to course | | 2 | Sometimes | 30 | 50 | 555 | 47 | 1,615 | 42 | 6,780 | 40 | | | | | | | |
| discussions in other | | 3 | Often | 25 | 42 | 400 | 34 | 1,355 | 35 | 6,171 | 36 | 2.5 | 2.6 | 13 | 2.7 * | 21 | 2.7 ** | 30 |
| ways | | 4 | Very often | 3 | 5 | 171 | 15 | 666 | 17 | 3,509 | 20 | | 2.0 | .13 | ▽ | .21 | ▼ | .50 |
| | | | Total | 60 | 100 | 1,177 | 100 | 3,818 | 100 | 17,120 | 100 | | | | • | | • | |
| b. Prepared two or more | drafts | 1 | Never | 9 | 15 | 273 | 23 | 820 | 22 | 3,350 | 20 | | | | | | | |
| drafts of a paper or | | 2 | Sometimes | 22 | 37 | 453 | 39 | 1,452 | 38 | 6,448 | 38 | | | | | | | |
| assignment before | | 3 | Often | 16 | 27 | 297 | 25 | 1,054 | 28 | 4,858 | 28 | 2.5 | 2.3 * | .27 | 2.3 | .23 | 2.4 | .16 |
| turning it in | | 4 | Very often | 12 | 20 | 146 | 12 | 473 | 12 | 2,403 | 14 | | Δ | | | | | |
| | | | Total | 59 | 100 | 1,169 | 100 | 3,799 | 100 | 17,059 | 100 | | | | | | | |
| c. Come to class without | unpreparedr | 1 | Very often | 3 | 5 | 61 | 5 | 165 | 4 | 733 | 4 | | | | | | | |
| completing readings or | (Reverse-coded | 2 | Often | 8 | 13 | 164 | 14 | 507 | 13 | 2,171 | 13 | | | | | | | |
| assignments | version of | 3 | Sometimes | 39 | 65 | 656 | 56 | 2,147 | 56 | 9,760 | 57 | 2.9 | 3.0 | 09 | 3.0 | 14 | 3.0 | 15 |
| | unprepared | 4 | Never | 10 | 17 | 290 | 25 | 986 | 26 | 4,417 | 26 | | | | | | | |
| | created by NSSE.) | | Total | 60 | 100 | 1,171 | 100 | 3,805 | 100 | 17,081 | 100 | | | | | | | |
| d. Attended an art exhibit, | attendart | 1 | Never | 27 | 46 | 491 | 42 | 1,606 | 42 | 7,345 | 43 | | | | | | | - |
| play, or other arts | | 2 | Sometimes | 22 | 37 | 452 | 39 | 1,519 | 40 | 6,639 | 39 | | | | | | | |
| performance (dance, music, etc.) | | 3 | Often | 10 | 17 | 164 | 14 | 509 | 13 | 2,279 | 13 | 1.7 | 1.8 | 14 | 1.8 | 11 | 1.8 | 11 |
| music, etc.) | | 4 | Very often | 0 | 0 | 65 | 6 | 181 | 5 | 838 | 5 | | | | | | | |
| | | | Total | 59 | 100 | 1,172 | 100 | 3,815 | 100 | 17,101 | 100 | | | | | | | |
| e. Asked another student | CLaskhelp | 1 | Never | 2 | 3 | 54 | 5 | 178 | 5 | 911 | 5 | | | | | | | |
| to help you understand | | 2 | Sometimes | 19 | 32 | 332 | 28 | 1,116 | 29 | 5,223 | 31 | | | | | | | |
| course material | | 3 | Often | 25 | 42 | 473 | 40 | 1,502 | 39 | 6,637 | 39 | 2.9 | 2.9 | 05 | 2.9 | 04 | 2.8 | .01 |
| | | 4 | Very often | 14 | 23 | 317 | 27 | 1,023 | 27 | 4,340 | 25 | | | | | | | |
| | | | Total | 60 | 100 | 1,176 | 100 | 3,819 | 100 | 17,111 | 100 | | | | | | | |
| f. Explained course | CLexplain | 1 | Never | 2 | 3 | 24 | 2 | 81 | 2 | 439 | 3 | | | | | | | |
| material to one or more | | 2 | Sometimes | 15 | 25 | 353 | 30 | 1,112 | 29 | 4,859 | 28 | | | | | | | |
| students | | 3 | Often | 28 | 47 | 511 | 44 | 1,645 | 43 | 7,403 | 43 | 2.9 | 2.9 | .04 | 2.9 | .01 | 2.9 | .01 |
| | | 4 | Very often | 15 | 25 | 286 | 24 | 981 | 26 | 4,417 | 26 | | | | | | | |
| | | | Total | 60 | 100 | 1,174 | 100 | 3,819 | 100 | 17,118 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| First-Year Stude | ents ^a in | | | | | Frequer | icy D | istribution | S | | | | Sta | tistical (| Compariso | ons ^k | | |
|--|----------------------|----------|------------------------|--------------|-----|-------------------|-------|-------------|-----|-----------|-----|------|------------|------------|----------------|------------------|------------|------------------|
| Aero and Engin | eering | | | | | | | | | | | | | Your fir | st-year studer | nts compo | ared with | |
| | | | | LIND | | District D. Islic | DI. | C | | NSSE 2016 | i & | UND | Distance I | ulia Di la | C | Cl | NICCE 2016 | 0.2047 |
| the second second | Variable | | | UND | | Plains Public | Plus | Carnegie Cl | ass | 2017 | | UND | Plains Pul | Effect | Carnegie | Effect | NSSE 2016 | & 2017 Effect |
| Item wording or description | name ¹ | Values " | Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | size " | Mean | size " | Mean | size " |
| g. Prepared for exams by | CLstudy | 1 | Never | 6 | 10 | 99 | 8 | 347 | 9 | 1,670 | 10 | | | | | | | |
| discussing or working | | 2 | Sometimes | 16 | 27 | 365 | 31 | 1,112 | 29 | 5,252 | 31 | | | | | | | |
| through course material with other students | | 3 | Often | 26 | 43 | 395 | 34 | 1,346 | 35 | 5,893 | 34 | 2.7 | 2.8 | 06 | 2.8 | 06 | 2.7 | 02 |
| Will other students | | 4 | Very often | 12 | 20 | 314 | 27 | 1,014 | 27 | 4,299 | 25 | | | | | | | |
| | | | Total | 60 | 100 | 1,173 | 100 | 3,819 | 100 | 17,114 | 100 | | | | | | | |
| h. Worked with other | CLproject | 1 | Never | 3 | 5 | 27 | 2 | 163 | 4 | 692 | 4 | | | | | | | |
| students on course | | 2 | Sometimes | 16 | 27 | 373 | 32 | 1,182 | 31 | 5,122 | 30 | | | | | | | |
| projects or assignments | | 3 | Often | 31 | 52 | 491 | 42 | 1,540 | 40 | 6,973 | 41 | 2.8 | 2.9 | 10 | 2.8 | 06 | 2.9 | 09 |
| | | 4 | Very often | 10 | 17 | 282 | 24 | 930 | 24 | 4,308 | 25 | | | | | | | |
| | | | Total | 60 | 100 | 1,173 | 100 | 3,815 | 100 | 17,095 | 100 | | | | | | | |
| i. Given a course | present | 1 | Never | 28 | 47 | 325 | 28 | 941 | 25 | 3,515 | 21 | | | | | | | |
| presentation | | 2 | Sometimes | 24 | 40 | 564 | 48 | 1,812 | 47 | 8,358 | 49 | | | | | | | |
| | | 3 | Often | 7 | 12 | 224 | 19 | 777 | 20 | 3,914 | 23 | 1.7 | 2.0 ** | 41 | 2.1 *** | 50 | 2.2 *** | 59 |
| | | 4 | Very often | 1 | 2 | 60 | 5 | 290 | 8 | 1,332 | 8 | | ▼ | | \blacksquare | | ▼ | |
| | | | Total | 60 | 100 | 1,173 | 100 | 3,820 | 100 | 17,119 | 100 | | | | | | | |
| 2. During the current scho | ool year, abo | ut how o | often have you done th | e following? | | | | | | | | | | | | | | |
| a. Combined ideas from | RIintegrate | 1 | Never | 5 | 8 | 77 | 7 | 256 | 7 | 1,143 | 7 | | | | | | | |
| different courses when | | 2 | Sometimes | 25 | 42 | 516 | 44 | 1,614 | 42 | 7,057 | 41 | | | | | | | |
| completing assignments | | 3 | Often | 25 | 42 | 425 | 36 | 1,476 | 39 | 6,590 | 39 | 2.5 | 2.6 | 07 | 2.6 | 08 | 2.6 | 11 |
| | | 4 | Very often | 5 | 8 | 154 | 13 | 468 | 12 | 2,300 | 13 | | | | | | | |
| | | | Total | 60 | 100 | 1,172 | 100 | 3,814 | 100 | 17,090 | 100 | | | | | | | |
| b. Connected your | RIsocietal | 1 | Never | 12 | 20 | 181 | 16 | 540 | 14 | 2,244 | 13 | | | | | | | |
| learning to societal | | 2 | Sometimes | 31 | 52 | 599 | 51 | 1,837 | 48 | 7,971 | 47 | | | | | | | |
| problems or issues | | 3 | Often | 17 | 28 | 296 | 25 | 1,105 | 29 | 5,205 | 30 | 2.1 | 2.3 | 21 | 2.3 * | 29 | 2.4 ** | 34 |
| | | 4 | Very often | 0 | 0 | 91 | 8 | 321 | 8 | 1,652 | 10 | | | | ∇ | | ▼ | |
| | | | Total | 60 | 100 | 1,167 | 100 | 3,803 | 100 | 17,072 | 100 | | | | | | | |
| Included diverse | RIdiverse | 1 | Never | 14 | 23 | 255 | 22 | 705 | 18 | 2,914 | 17 | | | | | | | |
| perspectives (political, | | 2 | Sometimes | 30 | 50 | 549 | 47 | 1,692 | 44 | 7,549 | 44 | | | | | | | |
| religious, racial/ethnic, gender, etc.) in course | | 3 | Often | 14 | 23 | 281 | 24 | 1,043 | 27 | 4,835 | 28 | 2.1 | 2.2 | 12 | 2.3 * | 25 | 2.3 * | 29 |
| discussions or | | 4 | Very often | 2 | 3 | 84 | 7 | 375 | 10 | 1,785 | 10 | | | | ∇ | | ∇ | |
| assignments | | | Total | 60 | 100 | 1,169 | 100 | 3,815 | 100 | 17,083 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| First-Year Stud | lents ^a in | | | | | Frequenc | cy Di | istribution | S | | | | Sta | atistical | Compariso | ons ^k | | |
|--|-----------------------|---------------------|------------------------|--------------|-----|-----------------|--------|--------------|-----|-----------|-----|------|-----------|-------------------|----------------|-------------------|-----------|-------------------|
| Aero and Engi | neering | | | | | | | | | NSSE 2016 | 5 & | | | Your fi | st-year studer | nts compo | ared with | |
| | | | | UND | | Plains Public F | Plus | Carnegie Cl | ass | 2017 | | UND | Plains Pu | blic Plus | Carnegie | Class | NSSE 2016 | & 2017 |
| Item wording | Variable | | | | | | | | | | | | | Effect | | Effect | | Effect |
| or description d. Examined the strengths | name ' RIownview | Values ⁿ | Response options Never | Count 8 | 13 | Count 100 | % 9 | Count 269 | 7 | 1,039 | 6 | Mean | Mean | size ⁿ | Mean | size ⁿ | Mean | size ⁿ |
| and weaknesses of | Riowiiview | 2 | Sometimes | 18 | 30 | 429 | 37 | 1,340 | 35 | 5,912 | 35 | | | | | | | |
| your own views on a | | 3 | Often | 31 | 52 | 474 | 41 | 1,635 | 43 | 7,451 | 44 | 2.5 | 2.6 | 14 | 2.7 | 21 | 2.7 * | 26 |
| topic or issue | | 4 | Very often | 3 | 5 | 165 | 14 | 563 | 15 | 2,678 | 16 | 2.0 | 2.0 | 14 | 2.7 | 21 | ∇ | 20 |
| | | • | Total | 60 | 100 | | 100 | 3,807 | 100 | 17,080 | 100 | | | | | | • | |
| e. Tried to better | RIperspect | 1 | Never | 8 | 13 | 67 | 6 | 176 | 5 | 698 | 4 | | | | | | | |
| understand someone | | 2 | Sometimes | 17 | 28 | 397 | 34 | 1,169 | 31 | 5,193 | 30 | | | | | | | |
| else's views by | | 3 | Often | 30 | 50 | 490 | 42 | 1,696 | 44 | 7,639 | 45 | 2.5 | 2.7 | 24 | 2.8 * | 33 | 2.8 ** | 36 |
| _ | | 4 | Very often | 5 | 8 | 218 | 19 | 772 | 20 | 3,550 | 21 | | | | ▼ | | ▼ | |
| | | | Total | 60 | 100 | 1,172 | 100 | 3,813 | 100 | 17,080 | 100 | | | | , | | • | |
| f. Learned something that | RInewview | 1 | Never | 4 | 7 | 39 | 3 | 129 | 3 | 571 | 3 | | | | | | | |
| changed the way you | | 2 | Sometimes | 32 | 53 | 449 | 38 | 1,256 | 33 | 5,541 | 32 | | | | | | | |
| understand an issue or | | 3 | Often | 18 | 30 | 509 | 43 | 1,767 | 46 | 7,838 | 46 | 2.4 | 2.7 ** | 35 | 2.8 *** | 45 | 2.8 *** | 46 |
| concept | | 4 | Very often | 6 | 10 | 174 | 15 | 658 | 17 | 3,106 | 18 | | ▼ | | ▼ | | ▼ | |
| understand an issue or concept | | | Total | 60 | 100 | 1,171 | 100 | 3,810 | 100 | 17,056 | 100 | | | | | | | |
| g. Connected ideas from | RIconnect | 1 | Never | 0 | 0 | 17 | 1 | 59 | 2 | 251 | 1 | | | | | | | - |
| your courses to your | | 2 | Sometimes | 12 | 20 | 307 | 26 | 867 | 23 | 3,626 | 21 | | | | | | | |
| prior experiences and knowledge | | 3 | Often | 41 | 68 | 550 | 47 | 1,930 | 51 | 8,734 | 51 | 2.9 | 3.0 | 05 | 3.0 | 10 | 3.0 | 14 |
| kilowieuge | | 4 | Very often | 7 | 12 | 289 | 25 | 954 | 25 | 4,429 | 26 | | | | | | | |
| | | | Total | 60 | 100 | 1,163 | 100 | 3,810 | 100 | 17,040 | 100 | | | | | | | |
| 3. During the current scl | hool year, abo | ut how o | often have you done th | e following? | | | | | | | | | | | | | | |
| a. Talked about career | SFcareer | 1 | Never | 16 | 27 | 310 | 26 | 1,052 | 28 | 4,192 | 25 | | | | | | | |
| plans with a faculty member | | 2 | Sometimes | 35 | 58 | 580 | 49 | 1,749 | 46 | 7,887 | 46 | | | | | | | |
| memoer | | 3 | Often | 5 | 8 | 215 | 18 | 726 | 19 | 3,482 | 20 | 2.0 | 2.0 | 10 | 2.1 | 13 | 2.1 | 21 |
| | | 4 | Very often | 4 | 7 | 67 | 6 | 282 | 7 | 1,509 | 9 | | | | | | | |
| W. 1 - J - vid f- vile. | | | Total | 60 | 100 | 1,172 | 100 | 3,809 | 100 | 17,070 | 100 | | | | | | | |
| . Worked with a faculty S member on activities other than coursework | SFotherwork | 1 | Never | 31 | 52 | 546 | 47 | 1,935 | 51 | 8,320 | 49 | | | | | | | |
| | | 2 | Sometimes | 22 | 37 | 432 | 37 | 1,200 | 32 | 5,567 | 33 | | | | | | | |
| (committees, student | | 3 | Often | 7 | 12 | 143 | 12 | 476 | 13 | 2,269 | 13 | 1.6 | 1.7 | 17 | 1.7 | 14 | 1.8 | 17 |
| groups, etc.) | | 4 | Very often | 0 | 0 | 49 | 4 | 193 | 5 | 906 | 5 | | | | | | | |
| | | | Total | 60 | 100 | 1,170 | 100 | 3,804 | 100 | 17,062 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| | 2 | | | | | | | Om vei | , | | | unota | | | | | | |
|--|-------------------------------|----------|-----------------------|--------------|---------|---------------|-------|-------------|-----|-----------|-----|-------|-----------|------------------|---------------|------------------|-----------|------------------|
| First-Year Stude | nts ^a in | | | | | Frequer | ncy D | istribution | S | | | | Sta | atistical | Comparis | ons ^k | | |
| Aero and Engine | ering | | | | | | | | | | | | | Your fir | st-year stude | nts compo | ared with | |
| ricio dila Eligino | 8 | | | | | | | | | NSSE 2016 | 5 & | | | | | | | |
| | | | | UND | F | Plains Public | Plus | Carnegie Cl | ass | 2017 | | UND | Plains Pu | | Carnegie | | NSSE 2016 | |
| Item wording or description | Variable name ^l | Values " | Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size " | Mean | Effect size " | Mean | Effect size " |
| · | SFdiscuss | 1 | Never | 24 | 40 | 461 | 39 | 1,338 | 35 | 5,340 | 31 | Wear | Wicum | 3/20 | wean | SIEC | Wean | 3/20 |
| topics, ideas, or | | 2 | Sometimes | 31 | 52 | 496 | 42 | 1,628 | 43 | 7,672 | 45 | | | | | | | |
| concepts with a faculty | | 3 | Often | 5 | 8 | 160 | 14 | 646 | 17 | 2,972 | 17 | 1.7 | 1.8 | 18 | 1.9 * | 28 | 2.0 ** | 35 |
| member outside of class | | 4 | Very often | 0 | 0 | 52 | 4 | 194 | 5 | 1,057 | 6 | | | | ∇ | | • | |
| Class | | | Total | 60 | 100 | 1,169 | 100 | 3,806 | 100 | 17,041 | 100 | | | | • | | • | |
| d. Discussed your | SFperform | 1 | Never | 24 | 40 | 380 | 33 | 1,173 | 31 | 4,670 | 27 | | | | | | | |
| academic performance | | 2 | Sometimes | 29 | 48 | 554 | 47 | 1,805 | 47 | 8,250 | 48 | | | | | | | |
| with a faculty member | | 3 | Often | 6 | 10 | 179 | 15 | 635 | 17 | 3,094 | 18 | 1.7 | 1.9 | 24 | 2.0 * | 27 | 2.0 ** | 35 |
| with a faculty member | | 4 | Very often | 1 | 2 | 56 | 5 | 189 | 5 | 1,029 | 6 | | | | ∇ | | ▼ | |
| | | | Total | 60 | 100 | 1,169 | 100 | 3,802 | 100 | 17,043 | 100 | | | | | | | |
| . During the current schoo | l vear, how | much b | nas vour coursework e | mphasized th | e follo | wing? | | | | | | | | | | | | |
| | memorize | 1 | • | 2 | 3 | 46 | 4 | 123 | 3 | 653 | 4 | | | | | | | |
| material | | 2 | Some | 13 | 22 | 348 | 30 | 1,141 | 30 | 5,099 | 30 | | | | | | | |
| | | 3 | Quite a bit | 33 | 55 | 532 | 45 | 1,776 | 47 | 7,937 | 46 | 2.9 | 2.8 | .10 | 2.8 | .10 | 2.8 | .12 |
| | | 4 | Very much | 12 | 20 | 250 | 21 | 772 | 20 | 3,389 | 20 | | | | | | | |
| | | | Total | 60 | 100 | 1,176 | 100 | 3,812 | 100 | 17,078 | 100 | | | | | | | |
| b. Applying facts, | HOapply | 1 | Very little | 0 | 0 | 18 | 2 | 74 | 2 | 358 | 2 | | | | | | | |
| theories, or methods to | | 2 | Some | 14 | 23 | 189 | 16 | 629 | 17 | 2,813 | 16 | | | | | | | |
| practical problems or new situations | | 3 | Quite a bit | 29 | 48 | 563 | 48 | 1,854 | 49 | 8,105 | 47 | 3.1 | 3.2 | 14 | 3.1 | 10 | 3.1 | 11 |
| new situations | | 4 | Very much | 17 | 28 | 404 | 34 | 1,251 | 33 | 5,802 | 34 | | | | | | | |
| | | | Total | 60 | 100 | 1,174 | 100 | 3,808 | 100 | 17,078 | 100 | | | | | | | |
| c. Analyzing an idea, | HOanalyze | 1 | Very little | 3 | 5 | 40 | 3 | 124 | 3 | 522 | 3 | | | | | | | |
| experience, or line of | | 2 | Some | 17 | 28 | 312 | 27 | 893 | 24 | 4,044 | 24 | | | | | | | |
| reasoning in depth by examining its parts | | 3 | Quite a bit | 30 | 50 | 496 | 42 | 1,745 | 46 | 7,649 | 45 | 2.8 | 2.9 | 19 | 3.0 | 24 | 3.0 | 25 |
| examining its parts | | 4 | Very much | 10 | 17 | 324 | 28 | 1,031 | 27 | 4,826 | 28 | | | | | | | |
| | | | Total | 60 | 100 | 1,172 | 100 | 3,793 | 100 | 17,041 | 100 | | | | | | | |
| d. Evaluating a point of view, decision, or information source | HOevaluate | 1 | Very little | 12 | 20 | 125 | 11 | 290 | 8 | 1,235 | 7 | | | | | | | |
| | | 2 | Some | 23 | 39 | 446 | 38 | 1,297 | 34 | 5,548 | 33 | | | | | | | |
| information source | | 3 | Quite a bit | 15 | 25 | 415 | 35 | 1,542 | 41 | 7,010 | 41 | 2.4 | 2.6 | 23 | 2.7 ** | 38 | 2.7 ** | 43 |
| | | 4 | Very much | 9 | 15 | 184 | 16 | 669 | 18 | 3,250 | 19 | | | | ▼ | | ▼ | |
| | | | Total | 59 | 100 | 1,170 | 100 | 3,798 | 100 | 17,043 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| First-Year Stud | ents ^a in | | | | | Frequen | cy D | istribution | S | | | | Sta | atistical | Comparis | ons ^k | | |
|---|----------------------|---------------------|------------------------------|----------------|----------|---------------|-----------|--------------|-----------|-----------------|-----------|------|-----------|-------------------|----------------|-------------------|-----------|-------------------|
| Aero and Engir | o and Engineering | | | | | | | | | NSSE 2016 | 5 & | | | Your fi | rst-year stude | nts comp | ared with | |
| | | | | UND | | Plains Public | Plus | Carnegie Cl | ass | 2017 | | UND | Plains Pu | ıblic Plus | Carnegie | Class | NSSE 2016 | & 2017 |
| Item wording | Variable | _ | _ | | | | | | | | | | | Effect | | Effect | | Effect |
| or description e. Forming a new idea or | name ' HOform | Values ⁿ | Response options Very little | Count 6 | % 10 | Count 75 | 6 | Count 203 | 5 | Count 860 | 5 | Mean | Mean | size ⁿ | Mean | size ⁿ | Mean | size ⁿ |
| understanding from | Holoim | 2 | Some | 25 | 42 | 406 | 35 | 1,129 | 30 | 4,917 | 29 | | | | | | | |
| various pieces of | | 3 | Ouite a bit | 22 | 37 | 466 | 40 | 1,700 | 45 | 7,642 | 45 | 2.5 | 2.7 | 26 | 2.8 ** | 36 | 2.8 ** | 39 |
| information | | 4 | Very much | 7 | 12 | 224 | 19 | 768 | 20 | 3,627 | 21 | 2.0 | 2.7 | 20 | ₹.0 | 50 | ₹ | 57 |
| | | · | Total | 60 | 100 | 1,171 | 100 | 3,800 | 100 | 17,046 | 100 | | | | • | | • | |
| 5. During the current sch | ool year, to w | vhat exte | ent have your instructo | ors done the f | ollow | ing? | | | | | | | | | | | | |
| a. Clearly explained | ETgoals | 1 | Very little | 2 | 3 | 27 | 2 | 104 | 3 | 353 | 2 | | | | | | | |
| course goals and | | 2 | Some | 10 | 17 | 270 | 23 | 808 | 21 | 3,534 | 21 | | | | | | | |
| requirements | | 3 | Quite a bit | 41 | 69 | 569 | 49 | 1,858 | 49 | 8,354 | 49 | 2.9 | 3.0 | 16 | 3.0 | 19 | 3.0 | 23 |
| | | 4 | Very much | 6 | 10 | 306 | 26 | 1,044 | 27 | 4,842 | 28 | | | | | | | |
| | | | Total | 59 | 100 | 1,172 | 100 | 3,814 | 100 | 17,083 | 100 | | | | | | | |
| b. Taught course sessions | ETorganize | 1 | Very little | 2 | 3 | 37 | 3 | 113 | 3 | 475 | 3 | | | | | | | |
| in an organized way | | 2 | Some | 17 | 28 | 224 | 19 | 771 | 20 | 3,419 | 20 | | | | | | | |
| | | 3 | Quite a bit | 28 | 47 | 608 | 52 | 1,905 | 50 | 8,378 | 49 | 2.9 | 3.0 | 18 | 3.0 | 18 | 3.0 | 21 |
| | | 4 | Very much | 13 | 22 | 298 | 26 | 1,017 | 27 | 4,790 | 28 | | | | | | | |
| | | | Total | 60 | 100 | 1,167 | 100 | 3,806 | 100 | 17,062 | 100 | | | | | | | |
| c. Used examples or | ETexample | 1 | Very little | 3 | 5 | 26 | 2 | 124 | 3 | 491 | 3 | | | | | | | |
| illustrations to explain difficult points | | 2 | Some | 13 | 22 | 238 | 20 | 782 | 21 | 3,443 | 20 | | | | | | | |
| difficult points | | 3 | Quite a bit | 32 | 54 | 540 | 46 | 1,729 | 45 | 7,752 | 45 | 2.9 | 3.1 | 26 | 3.0 | 22 | 3.1 | 24 |
| | | 4 | Very much | 11 | 19 | 365 | 31 | 1,177 | 31 | 5,385 | 32 | | | | | | | |
| | | | Total | 59 | 100 | 1,169 | 100 | 3,812 | 100 | 17,071 | 100 | | | | | | | |
| d. Provided feedback on a draft or work in | ETdraftfb | 1 | Very little | 5 | 8 | 165 | 14 | 444 | 12 | 1,742 | 10 | | | | | | | |
| progress | | 2 | Some | 27 | 45 | 444 | 38 | 1,325 | 35 | 5,628 | 33 | 2.5 | | | | | | |
| 1 0 | | 3 | Quite a bit | 23 | 38 | 372 | 32 | 1,343 | 35 | 6,174 | 36 | 2.5 | 2.5 | 04 | 2.6 | 15 | 2.7 * | 22 |
| | | 4 | Very much Total | 5 60 | 8 100 | 191 1,172 | 16 100 | 700 3,812 | 18 100 | 3,516 17,060 | 21 100 | | | | | | ∇ | |
| e. Provided prompt and | ETfeedback | 1 | | 13 | 22 | 1,172 | 100 | 3,812 | 100 | 1,482 | 9 | | | | | | | |
| detailed feedback on | E I ICCUDACK | 1 2 | Very little Some | 16 | 27 | 428 | 37 | 1,291 | 34 | 5,664 | 33 | | | | | | | |
| tests or completed | | 3 | Ouite a bit | 27 | 45 | 428 | 37 | 1,502 | 39 | 6,737 | 33 40 | 2.4 | 2.6 | 25 | 2.6 * | 29 | 2.7 ** | 26 |
| assignments | | 3 4 | Very much | 4 | 43 7 | 187 | 16 | 621 | 39 16 | 3,147 | 18 | 2.4 | 2.0 | 25 | 2.6 * ▼ | 29 | | 36 |
| | | 4 | Total | 60 | 100 | 1,171 | 100 | 3,803 | 100 | 17.030 | 100 | | | | ٧ | | • | |
| | | | 10141 | 00 | 100 | 1,1/1 | 100 | 3,003 | 100 | 17,030 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| First-Year Stu | ıdents ^a in | | | | | Frequen | cy D | istribution | S | | | | Sta | atistical (| Comparis | ons ^k | | |
|---|-------------------------------------|---------------------|------------------------|---------------|---------|----------------|-------|--------------|--------|------------|--------|-------------------|-------------|------------------|----------------|------------------|-----------|-----------------------------|
| Aero and Eng | gineering | | | | | | | | | NSSE 2016 | 5 & | | | Your fir | rst-year stude | ents comp | ared with | |
| | | | | UND | | Plains Public | Plus | Carnegie Cl | ass | 2017 | | UND | Plains Pu | ıblic Plus | Carnegie | e Class | NSSE 2016 | 6 & 2017 |
| Item wording or description | Variable name ^I | Values ⁿ | Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size " | Mean | Effect size " | Mean | Effect size ⁿ |
| 6. During the current | school year, abou | t how o | often have you done th | e following? | | | | | | | | | | | | | | |
| a. Reached conclusions | QRconclude | 1 | Never | 2 | 3 | 40 | 3 | 163 | 4 | 748 | 4 | | | | | | | |
| based on your own | | 2 | Sometimes | 11 | 18 | 365 | 31 | 1,077 | 28 | 4,698 | 28 | | | | | | | |
| analysis of numerical | | 3 | Often | 31 | 52 | 493 | 42 | 1,697 | 45 | 7,663 | 45 | 3.0 | 2.9 | .20 | 2.9 | .19 | 2.9 | .18 |
| information (numbers, graphs, statistics, etc.) | | 4 | Very often | 16 | 27 | 277 | 24 | 869 | 23 | 3,941 | 23 | | | | | | | |
| graphs, statistics, etc.) | | | Total | 60 | 100 | 1,175 | 100 | 3,806 | 100 | 17,050 | 100 | | | | | | | |
| b. Used numerical | QRproblem | 1 | Never | 15 | 25 | 225 | 19 | 767 | 20 | 3,144 | 18 | | | | | | | - |
| information to examine | | 2 | Sometimes | 21 | 36 | 480 | 41 | 1,512 | 40 | 6,734 | 40 | | | | | | | |
| a real-world problem o | r | 3 | Often | 18 | 31 | 336 | 29 | 1,100 | 29 | 5,000 | 29 | 2.2 | 2.3 | 11 | 2.3 | 10 | 2.4 | 15 |
| issue (unemployment, climate change, public | | 4 | Very often | 5 | 8 | 134 | 11 | 425 | 11 | 2,168 | 13 | | | | | | | |
| health, etc.) | | | Total | 59 | 100 | 1,175 | 100 | 3,804 | 100 | 17,046 | 100 | | | | | | | |
| neutai, etc.) | | | | | | 2,212 | | -, | | -1,-1- | | | | | | | | |
| c. Evaluated what others | QRevaluate | 1 | Never | 8 | 13 | 152 | 13 | 525 | 14 | 2,199 | 13 | | | | | | | |
| have concluded from | | 2 | Sometimes | 24 | 40 | 486 | 41 | 1,596 | 42 | 7,052 | 41 | | | | | | | |
| numerical information | | 3 | Often | 24 | 40 | 405 | 35 | 1,262 | 33 | 5,818 | 34 | 2.4 | 2.4 | 04 | 2.4 | 02 | 2.4 | 05 |
| | | 4 | Very often | 4 | 7 | 129 | 11 | 422 | 11 | 1,988 | 12 | | | | | | | |
| | | | Total | 60 | 100 | 1,172 | 100 | 3,805 | 100 | 17,057 | 100 | | | | | | | |
| 7. During the current | school year, abou | t how 1 | nany papers, reports, | or other writ | ing tas | sks of the fol | lowin | g lengths ha | ve you | been assig | ned? (| Include those not | t yet compl | leted.) | | | | |
| a. Up to 5 pages | wrshortnum | 0 | None | 6 | 10 | 126 | 11 | 332 | 9 | 1,203 | 7 | | | | | | | |
| | (Recoded version | 1.5 | 1-2 | 13 | 22 | 303 | 26 | 865 | 23 | 3,816 | 22 | | | | | | | |
| | of wrshort created | 4 | 3-5 | 17 | 28 | 379 | 32 | 1,288 | 34 | 5,634 | 33 | | | | | | | |
| | by NSSE. Values | 8 | 6-10 | 10 | 17 | 199 | 17 | 731 | 19 | 3,610 | 21 | 6.6 | 5.5 | .20 | 5.8 | .14 | 6.1 | .09 |
| | are estimated | 13 | 11-15 | 8 | 13 | 74 | 6 | 306 | 8 | 1,417 | 8 | | | | | | | |
| | number of papers, reports, etc.) | 18 | 16-20 | 3 | 5 | 34 | 3 | 136 | 4 | 625 | 4 | | | | | | | |
| | reports, etc.) | 23 | More than 20 | 3 | 5 | 55 | 5 | 151 | 4 | 716 | 4 | | | | | | | |
| | | | Total | 60 | 100 | 1,170 | 100 | 3,809 | 100 | 17,021 | 100 | | | | | | | |
| b. Between 6 and 10 | wrmednum | 0 | None | 20 | 33 | 603 | 53 | 1,562 | 41 | 6,426 | 38 | | | | | | | |
| pages | (Recoded version | 1.5 | 1-2 | 11 | 18 | 352 | 31 | 1,382 | 37 | 6,585 | 39 | | | | | | | |
| | of wrmed created | 4 | 3-5 | 21 | 35 | 112 | 10 | 554 | 15 | 2,548 | 15 | | | | | | | |
| | by NSSE. Values | 8 | 6-10 | 6 | 10 | 43 | 4 | 192 | 5 | 943 | 6 | 3.0 | 1.6 ** | .45 | 1.9 * | .37 | 2.0 * | .33 |
| | are estimated | 13 | 11-15 | 1 | 2 | 15 | 1 | 53 | 1 | 250 | 1 | | A | | | | A | |
| | number of papers, | 18 | 16-20 | 1 | 2 | 7 | 1 | 14 | 0 | 57 | 0 | | | | | | | |
| | reports, etc.) | 23 | More than 20 | 0 | 0 | 7 | 1 | 16 | 0 | 81 | 0 | | | | | | | |
| | | | Total | 60 | 100 | 1,139 | 100 | 3,773 | 100 | 16,890 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| | | | | | | | | | | | | anota | | | | | | |
|--|-------------------------------------|---------------------------------|---|--|--|--|---|--|---|--|---|-------|------------|-------------------|----------------|------------------|-----------|-------------------|
| First-Year Stu | ıdents ^a in | | | | | Frequen | ıcy Di | stribution | S | | | | Sta | tistical (| Compariso | ons ^k | | |
| Aero and Eng | gineering | | | | | | | | | | | | | Your fir | st-year studer | its compo | ared with | |
| ACIO dila Elig | Sincering | | | | | | | | | NSSE 2016 | & | | | | | | | |
| | | | | UND | P | lains Public | Plus | Carnegie Cl | ass | 2017 | | UND | Plains Pul | | Carnegie | | NSSE 2016 | |
| Item wording | Variable ' | " | | | 21 | | 0/ | | | | 21 | | | Effect . n | | Effect . n | | Effect |
| or description c. 11 pages or more | name ' wrlongnum | values 0 | Response options None | Count 47 | % 78 | Count 943 | 84 | 2,788 | % 74 | 12,612 | 75 | Mean | Mean | size ⁿ | Mean | size " | Mean | size ⁿ |
| 1 | (Recoded version | 1.5 | 1-2 | 10 | 17 | 114 | 10 | 696 | 19 | 2,926 | 17 | | | | | | | |
| | of wrlong created | 4 | 3-5 | 3 | 5 | 32 | 3 | 142 | 4 | 603 | 4 | | | | | | | |
| | by NSSE. Values | 8 | 6-10 | 0 | 0 | 14 | 1 | 75 | 2 | 362 | 2 | .5 | .7 | 10 | .8 ** | 16 | .9 ** | 16 |
| | are estimated | 13 | 11-15 | 0 | 0 | 13 | 1 | 33 | 1 | 172 | 1 | | | | ∇ | | ∇ | |
| | number of papers, reports, etc.) | 18 | 16-20 | 0 | 0 | 4 | 0 | 12 | 0 | 54 | 0 | | | | • | | • | |
| | reperis, elely | 23 | More than 20 | 0 | 0 | 7 | 1 | 11 | 0 | 71 | 0 | | | | | | | |
| | | | Total | 60 | 100 | 1,127 | 100 | 3,757 | 100 | 16,800 | 100 | | | | | | | |
| Estimated number of | wrpages | | | | | | | | | | | | | | | | | |
| assigned pages of | | | | | | | | | | | | 50.4 | 38.6 | .18 | 44.4 | .10 | 46.5 | .06 |
| student writing. | | | led and summed by NSSE | | | | | | | | | | 30.0 | .10 | | .10 | 10.0 | .00 |
| | from wrshort, wrme | | - | | | | | | | | | | | | | | | |
| | estimated pages of | | | | | | | | | | | | | | | | | |
| _ | • | | often have you had disc | | | | | - | | | | | | | | | | |
| a. People of a race or | DDrace | 1 | Never | 8 | 13 | 65 | 6 | 168 | 4 | 787 | 5 | | | | | | | |
| ethnicity other than your own | | 2 | Sometimes | 25 | 42 | 356 | 30 | 974 | 25 | 4,111 | 24 | | | | | | | |
| your own | | 3 | Often | 17 | 28 | 404 | 34 | 1,252 | 33 | 5,606 | 33 | 2.5 | 2.9 *** | 45 | 3.0 *** | 61 | 3.1 *** | 64 |
| | | 4 | Very often | 10 | 17 | 352 | 30 | 1,427 | 37 | 6,614 | 39 | | ▼ | | • | | • | |
| | | | Total | 60 | 100 | 1,177 | 100 | | | | | | | | | | | |
| b. People from an | DDeconomic | | | | | | 100 | 3,821 | 100 | 17,118 | 100 | | | | | | | |
| economic background | Disconomic | 1 | Never | 5 | 8 | 50 | 4 | 152 | 4 | 731 | 4 | | | | | | | |
| | ВВесонопис | 1 2 | Never Sometimes | 5 16 | 8 27 | | | | | | | | | | | | | |
| other than your own | BBeconomic | _ | | | | 50 | 4 | 152 | 4 | 731 | 4 | 2.8 | 3.0 * | 26 | 3.0 * | 33 | 3.0 ** | 34 |
| | Beconomic | 2 | Sometimes | 16 | 27 | 50 291 | 4 25 | 152 899 | 4 24 | 731 3,820 | 4 22 | 2.8 | 3.0 * | 26 | 3.0 * | 33 | 3.0 ** | 34 |
| | Beconomic | 2 3 | Sometimes Often | 16 28 | 27 47 | 50 291 472 | 4 25 40 | 152 899 1,430 | 4 24 37 | 731 3,820 6,421 | 4 22 38 | 2.8 | | 26 | | 33 | | 34 |
| other than your own c. People with religious | DDreligion | 2 3 | Sometimes Often Very often | 16 28 11 | 27 47 18 | 50 291 472 358 | 4 25 40 31 | 152 899 1,430 1,336 | 4 24 37 35 | 731 3,820 6,421 6,105 | 4 22 38 36 | 2.8 | | 26 | | 33 | | 34 |
| other than your own c. People with religious beliefs other than your | | 2 3 4 | Sometimes Often Very often Total | 16 28 11 60 | 27 47 18 100 | 50 291 472 358 1,171 | 4 25 40 31 100 | 152 899 1,430 1,336 3,817 | 4 24 37 35 100 | 731 3,820 6,421 6,105 17,077 | 4 22 38 36 100 | | | 26 | | 33 | | 34 |
| other than your own c. People with religious | | 2 3 4 | Sometimes Often Very often Total Never | 16 28 11 60 4 | 27 47 18 100 7 | 50 291 472 358 1,171 | 4 25 40 31 100 5 | 152 899 1,430 1,336 3,817 290 | 4 24 37 35 100 | 731 3,820 6,421 6,105 17,077 1,084 4,201 5,630 | 4 22 38 36 100 6 | 2.8 | | 26 | | 33 | | |
| other than your own c. People with religious beliefs other than your | | 2 3 4 | Sometimes Often Very often Total Never Sometimes | 16 28 11 60 4 21 | 27 47 18 100 7 35 | 50 291 472 358 1,171 62 298 | 4 25 40 31 100 5 25 | 152 899 1,430 1,336 3,817 290 1,009 | 4 24 37 35 100 8 26 | 731 3,820 6,421 6,105 17,077 1,084 4,201 | 4 22 38 36 100 6 25 | | ▽ | | • | | • | |
| other than your own c. People with religious beliefs other than your | | 2 3 4 1 2 3 | Sometimes Often Very often Total Never Sometimes Often | 16 28 11 60 4 21 22 | 27 47 18 100 7 35 37 | 50 291 472 358 1,171 62 298 402 | 4 25 40 31 100 5 25 34 | 152 899 1,430 1,336 3,817 290 1,009 1,212 | 4 24 37 35 100 8 26 32 | 731 3,820 6,421 6,105 17,077 1,084 4,201 5,630 | 4 22 38 36 100 6 25 33 36 100 | | 3.0 * | | • | | 3.0 * | |
| c. People with religious beliefs other than your own | | 2 3 4 1 2 3 | Sometimes Often Very often Total Never Sometimes Often Very often | 16 28 11 60 4 21 22 13 | 27 47 18 100 7 35 37 22 | 50 291 472 358 1,171 62 298 402 412 | 4 25 40 31 100 5 25 34 35 | 152 899 1,430 1,336 3,817 290 1,009 1,212 1,304 | 4 24 37 35 100 8 26 32 34 | 731 3,820 6,421 6,105 17,077 1,084 4,201 5,630 6,177 | 4 22 38 36 100 6 25 33 36 | | 3.0 * | | • | | 3.0 * | |
| c. People with religious beliefs other than your own d. People with political views other than your | DDreligion | 2 3 4 1 2 3 4 | Sometimes Often Very often Total Never Sometimes Often Very often Total | 16 28 11 60 4 21 22 13 60 | 27 47 18 100 7 35 37 22 100 | 50 291 472 358 1,171 62 298 402 412 1,174 | 4 25 40 31 100 5 25 34 35 100 | 152 899 1,430 1,336 3,817 290 1,009 1,212 1,304 3,815 | 4 24 37 35 100 8 26 32 34 100 | 731 3,820 6,421 6,105 17,077 1,084 4,201 5,630 6,177 17,092 | 4 22 38 36 100 6 25 33 36 100 | 2.7 | 3.0 * | | • | | 3.0 * | |
| c. People with religious beliefs other than your own | DDreligion | 2 3 4 1 2 3 4 | Sometimes Often Very often Total Never Sometimes Often Very often Total Never | 16 28 11 60 4 21 22 13 60 | 27 47 18 100 7 35 37 22 100 | 50 291 472 358 1,171 62 298 402 412 1,174 | 4 25 40 31 100 5 25 34 35 100 | 152 899 1,430 1,336 3,817 290 1,009 1,212 1,304 3,815 | 4 24 37 35 100 8 26 32 34 100 | 731 3,820 6,421 6,105 17,077 1,084 4,201 5,630 6,177 17,092 | 4 22 38 36 100 6 25 33 36 100 5 | | 3.0 * | | • | | 3.0 * | |
| c. People with religious beliefs other than your own d. People with political views other than your | DDreligion | 2 3 4 1 2 3 4 | Sometimes Often Very often Total Never Sometimes Often Very often Total Never Sometimes | 16 28 11 60 4 21 22 13 60 4 | 27 47 18 100 7 35 37 22 100 7 23 | 50 291 472 358 1,171 62 298 402 412 1,174 55 | 4 25 40 31 100 5 25 34 35 100 5 | 152 899 1,430 1,336 3,817 290 1,009 1,212 1,304 3,815 185 946 | 4 24 37 35 100 8 26 32 34 100 5 | 731 3,820 6,421 6,105 17,077 1,084 4,201 5,630 6,177 17,092 874 4,265 | 4 22 38 36 100 6 25 33 36 100 5 25 | 2.7 | 3.0 * V | 29 | 2.9 | 20 | 3.0 * ▽ | 28 |



Frequencies and Statistical Comparisons: Aero and Engineering

| First-Year Stu | dents ^a in | | | | | Freque | ncy D | istribution | S | | | | St | atistical | Comparis | ons ^k | | |
|--|----------------------------|---------------------|-----------------------|--------------|---------|---------------|--------|-------------|-----|-----------|-----|------|-----------|-------------------|---------------|-------------------|-----------|-------------------|
| Aero and Engi | neering | | | | | | | | | NSSE 2016 | - 0 | | | Your fir | st-year stude | ents comp | ared with | |
| | _ | | | UND | F | Plains Public | Plus | Carnegie Cl | ass | 2017 | οα | UND | Plains Pu | ıblic Plus | Carnegie | e Class | NSSE 2016 | 5 & 2017 |
| Item wording | Variable | | | 0.1.2 | | | | | | 2017 | | | | Effect | - | Effect | | Effect |
| or description | name ^I | Values ^m | Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | size ⁿ | Mean | size ⁿ | Mean | size ⁿ |
| 9. During the current so | • | ut how o | • | e following? | | | | | | | | | | | | | | |
| a. Identified key | LSreading | 1 | Never | 3 | 5 | 38 | 3 | 101 | 3 | 447 | 3 | | | | | | | |
| information from reading assignments | | 2 | Sometimes | 21 | 35 | 360 | 31 | 1,038 | 27 | 4,405 | 26 | | | | | | | |
| reading assignments | | 3 | Often | 28 | 47 | 551 | 47 | 1,814 | 48 | 8,307 | 49 | 2.7 | 2.8 | 18 | 2.9 * | 28 | 2.9 * | 31 |
| | | 4 | Very often | 8 | 13 | 224 | 19 | 857 | 22 | 3,927 | 23 | | | | ∇ | | • | |
| | | | Total | 60 | 100 | 1,173 | 100 | 3,810 | 100 | 17,086 | 100 | | | | | | | |
| b. Reviewed your notes | LSnotes | 1 | Never | 5 | 8 | 65 | 6 | 194 | 5 | 836 | 5 | | | | | | | |
| after class | | 2 | Sometimes | 21 | 35 | 404 | 35 | 1,223 | 32 | 5,459 | 32 | | | | | | | |
| | | 3 | Often | 24 | 40 | 431 | 37 | 1,450 | 38 | 6,269 | 37 | 2.7 | 2.8 | 14 | 2.8 | 21 | 2.8 | 23 |
| | | 4 | Very often | 10 | 17 | 270 | 23 | 950 | 25 | 4,528 | 26 | | | | | | | |
| | | | Total | 60 | 100 | 1,170 | 100 | 3,817 | 100 | 17,092 | 100 | | | | | | | |
| c. Summarized what you learned in class or from | LSsummary | 1 | Never | 6 | 10 | 87 | 7 | 274 | 7 | 1,143 | 7 | | | | | | | |
| course materials | | 2 | Sometimes | 18 | 30 | 447 | 38 | 1,359 | 36 | 5,911 | 35 | 2.6 | | | | | | |
| | | 3 | Often | 31 | 52 | 430 | 37 | 1,431 | 38 | 6,566 | 39 | 2.6 | 2.6 | 07 | 2.7 | 12 | 2.7 | 16 |
| | | 4 | Very often | 5 | 8 | 205 | 18 | 732 | 19 | 3,422 | 20 | | | | | | | |
| | | | Total | 60 | 100 | 1,169 | 100 | 3,796 | 100 | 17,042 | 100 | | | | | | | |
| 10. During the current | school year, to | what ext | ent have your courses | challenged y | ou to d | lo your bes | t worl | k? | | | | | | | | | | |
| | challenge | 1 | Not at all | 0 | 0 | 3 | 0 | 25 | 1 | 138 | 1 | | | | | | | |
| | | 2 | | 0 | 0 | 11 | 1 | 41 | 1 | 173 | 1 | | | | | | | |
| | | 3 | | 3 | 5 | 36 | 3 | 154 | 4 | 680 | 4 | | | | | | | |
| | | 4 | | 10 | 17 | 95 | 8 | 391 | 10 | 1,767 | 10 | 5.5 | 5.6 | 12 | 5.5 | 05 | 5.5 | 03 |
| | | 5 | | 17 | 28 | 370 | 32 | 1,173 | 31 | 5,377 | 31 | | | | | | | |
| | | 6 | | 16 | 27 | 395 | 34 | 1,122 | 29 | 5,109 | 30 | | | | | | | |
| | | 7 | Very much | 14 | 23 | 260 | 22 | 904 | 24 | 3,838 | 22 | | | | | | | |
| | | | Total | 60 | 100 | 1,170 | 100 | 3,810 | 100 | 17,082 | 100 | | | | | | | |
| 11. Which of the follow | ing have you do | ne or do | you plan to do befor | e you gradua | te?° | | | | | | | | | | | | | |
| a. Participate in an | intern | | Have not decided | 7 | 12 | 63 | 5 | 298 | 8 | 1,387 | 8 | | | | | | | |
| internship, co-op, field | (Means indicate | | Do not plan to do | 0 | 0 | 23 | 2 | 93 | 2 | 567 | 3 | | | | | | | |
| experience, student teaching, or clinical | the percentage | | Plan to do | 50 | 83 | 1,006 | 86 | 3,173 | 83 | 13,848 | 81 | 5% | 7% | 09 | 7% | 07 | 8% | 11 |
| placement | who responded | | Done or in progress | 3 | 5 | 83 | 7 | 256 | 7 | 1,305 | 8 | | | | | | | |
| * | "Done or in progress.") | | Total | 60 | 100 | 1,175 | 100 | 3,820 | 100 | 17,107 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| First-Year Stud | dents ^a in | | | | Frequency | Distri | ibution | S | | | | Sta | atistical | Comparis | sons ^k | | |
|--|------------------------------|--------------------------------------|----------|--------------|------------------------|----------|----------------|----------|----------------|--------------|------|-----------|-------------------|--------------|-------------------|-----------|-------------------|
| Aero and Engi | neering | | | | | | | | NSSE 2016 | : <i>Q</i> , | | | Your fir | st-year stud | ents comp | ared with | |
| | | | UND | | Plains Public Plu | ıs Car | rnegie Cla | ass | 2017 | οα | UND | Plains Pu | ıblic Plus | Carnegi | e Class | NSSE 2010 | 6 & 2017 |
| Item wording | Variable | | | | | | | | | | | | Effect | | Effect | | Effect |
| or description | name ^I | Values ^m Response options | Count | % | | % | Count | % | Count | % | Mean | Mean | size ⁿ | Mean | size ⁿ | Mean | size ⁿ |
| b. Hold a formal leadership role in a | leader | Have not decided | 18 | 30 | | 26 | 975 | 26 | 4,432 | 26 | | | | | | | |
| student organization or | (Means indicate | Do not plan to do | 15 | 25 | | 12 | 706 | 19 | 3,323 | 19 | 400/ | | | | | | |
| group | the percentage | Plan to do | 21 | 35 | | 17 | 1,634 | 43 | 7,312 | 43 | 10% | 15% | 16 | 13% | 10 | 12% | 06 |
| | who responded "Done or in | Done or in progress | 6 | 10 | | 15 | 497 | 13 | 2,015 | 12 | | | | | | | |
| | progress.") | Total | 60 | 100 | 1,171 10 | 00 | 3,812 | 100 | 17,082 | 100 | | | | | | | |
| c. Participate in a learning | learncom | Have not decided | 18 | 30 | 313 | 27 | 1,236 | 32 | 5,295 | 31 | | | | | | | |
| community or some | (Means indicate | Do not plan to do | 17 | 28 | 339 | 29 | 1,046 | 27 | 4,683 | 27 | | | | | | | |
| other formal program | the percentage | Plan to do | 14 | 23 | 256 | 22 | 965 | 25 | 4,376 | 26 | 18% | 22% | 10 | 15% | .09 | 16% | .06 |
| where groups of students take two or | who responded | Done or in progress | 11 | 18 | 260 | 22 | 567 | 15 | 2,714 | 16 | | | | | | | |
| more classes together | "Done or in progress.") | Total | 60 | 100 | 1,168 10 | 00 | 3,814 | 100 | 17,068 | 100 | | | | | | | |
| d. Participate in a study | abroad | Have not decided | 16 | 27 | 358 | 31 | 1,160 | 30 | 4,924 | 29 | | | | | | | |
| abroad program | (Means indicate | Do not plan to do | 27 | 45 | 416 | 36 | 1,263 | 33 | 5,546 | 32 | | | | | | | |
| | the percentage | Plan to do | 17 | 28 | 364 | 31 | 1,284 | 34 | 6,085 | 36 | 0% | 3% | 34 | 3% | 34 | 3% | 35 |
| | who responded | Done or in progress | 0 | 0 | 33 | 3 | 107 | 3 | 522 | 3 | | | | | | | |
| | "Done or in progress.") | Total | 60 | 100 | 1,171 10 | 00 | 3,814 | 100 | 17,077 | 100 | | | | | | | |
| e. Work with a faculty | research | Have not decided | 31 | 52 | 468 | 10 | 1,354 | 36 | 6,078 | 36 | | | | | | | |
| member on a research | (Means indicate | Do not plan to do | 11 | 18 | 163 | 14 | 453 | 12 | 2,265 | 13 | | | | | | | |
| project | the percentage | Plan to do | 18 | 30 | 472 | 40 | 1,777 | 47 | 7,742 | 45 | 0% | 6% | 49 | 6% | 50 | 6% | 48 |
| | who responded | Done or in progress | 0 | 0 | 68 | 6 | 229 | 6 | 980 | 6 | | | | | | | |
| | "Done or in progress.") | Total | 60 | 100 | 1,171 10 | 00 | 3,813 | 100 | 17,065 | 100 | | | | | | | |
| f. Complete a culminating | capstone | Have not decided | 15 | 25 | 334 | 29 | 948 | 25 | 4,190 | 25 | | | | | | | |
| senior experience | (Means indicate | Do not plan to do | 3 | 5 | 83 | 7 | 193 | 5 | 1,023 | 6 | | | | | | | |
| (capstone course, | the percentage | Plan to do | 42 | 70 | 727 | 52 | 2,615 | 69 | 11,568 | 68 | 0% | 2% | 28 | 1% | 25 | 2% | 26 |
| senior project or thesis, comprehensive exam, | who responded | Done or in progress | 0 | 0 | 22 | 2 | 57 | 1 | 293 | 2 | | | | | | | |
| portfolio, etc.) | "Done or in progress.") | Total | 60 | 100 | 1,166 10 | 00 | 3,813 | 100 | 17,074 | 100 | | | | | | | |
| | | | | | • • • • • | | | | | | | | | | | | |
| 12. About how many of | • | this institution have included | | y-base 53 | 1 0 | | 8/ | 5.6 | 0.044 | 52 | | | | | | | |
| | servcourse | 1 None 2 Some | 32 27 | 53 45 | | 52 41 | 2,124 1,410 | 56 37 | 9,044 6,702 | 53 39 | | | | | | | |
| | | 2 Some 3 Most | 0 | 45 | 482 ² 66 | 6 | 225 | 6 | 1,065 | 39 6 | 1.5 | 1.5 | 08 | 1 5 | 04 | 1.6 | 00 |
| | | 4 All | 1 | 2 | | 1 | 52 | 0 1 | 238 | 0 1 | 1.3 | 1.5 | 08 | 1.5 | 04 | 1.0 | 09 |
| | | 4 All Total | 60 | 100 | 1.172 10 | | 3,811 | 100 | 17.049 | 100 | | | | | | | |
| | | 1000 | 00 | 100 | 1,172 10 | ,, | 5,011 | 100 | 17,049 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| First-Year Stu | dents ^a in | | | | | Frequer | ncy D | istributior | าร | | | | St | atistical | Comparis | sons ^k | | |
|-----------------------------|-------------------------------|----------|-------------------------------|----------------|--------|---------------|-------|-------------|------|-----------|-----|------|----------|-----------------------------|---------------|-----------------------------|-----------|-----------------------------|
| Aero and Eng | ineering | | | | | | | | | NSSE 2016 | 6 & | | | Your fi | rst-year stud | ents comp | ared with | |
| | | | | UND | | Plains Public | Plus | Carnegie C | lass | 2017 | | UND | Plains P | ublic Plus | Carnegie | e Class | NSSE 201 | 6 & 2017 |
| Item wording or description | Variable name ^I | Values' | ⁿ Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ |
| 3. Indicate the quality | of your intera | ctions w | ith the following peopl | e at your inst | itutio | n. | | | | | | | | | | | | |
| a. Students | QIstudent | 1 | Poor | 1 | 2 | 8 | 1 | 45 | 1 | 195 | 1 | | | | | | | |
| | | 2 | | 3 | 5 | 16 | 1 | 62 | 2 | 291 | 2 | | | | | | | |
| | | 3 | | 1 | 2 | 48 | 4 | 164 | 4 | 744 | 4 | | | | | | | |
| | | 4 | | 8 | 13 | 102 | 9 | 386 | 10 | 1,806 | 11 | | | | | | | |
| | | 5 | | 22 | 37 | 325 | 28 | 989 | 26 | 4,526 | 26 | 5.2 | 5.6 * | 32 | 5.5 * | 27 | 5.5 | 25 |
| | | 6 | | 15 | 25 | 367 | 31 | 1,149 | 30 | 4,989 | 29 | | ▼ | | ∇ | | | |
| | | 7 | Excellent | 10 | 17 | 305 | 26 | 1,012 | 26 | 4,477 | 26 | | | | | | | |
| | | _ | Not applicable | 0 | 0 | 6 | 1 | 14 | 0 | 89 | 1 | | | | | | | |
| | | | Total | 60 | 100 | 1,177 | 100 | 3,821 | 100 | 17,117 | 100 | | | | | | | |
| b. Academic advisors | QIadvisor | 1 | Poor | 5 | 8 | 49 | 4 | 145 | 4 | 522 | 3 | | | | | | | |
| | | 2 | | 5 | 8 | 58 | 5 | 219 | 6 | 805 | 5 | | | | | | | |
| | | 3 | | 8 | 13 | 87 | 7 | 328 | 9 | 1,313 | 8 | | | | | | | |
| | | 4 | | 8 | 13 | 165 | 14 | 566 | 15 | 2,443 | 14 | | | | | | | |
| | | 5 | | 9 | 15 | 274 | 23 | 843 | 22 | 3,596 | 21 | 4.6 | 5.1 | 27 | 5.0 | 22 | 5.2 * | 33 |
| | | 6 | | 13 | 22 | 251 | 21 | 782 | 21 | 3,663 | 21 | | | | | | • | |
| | | 7 | Excellent | 12 | 20 | 277 | 24 | 838 | 22 | 4,374 | 26 | | | | | | | |
| | | _ | Not applicable | 0 | 0 | 13 | 1 | 93 | 2 | 382 | 2 | | | | | | | |
| | | | Total | 60 | 100 | 1,174 | 100 | 3,814 | 100 | 17,098 | 100 | | | | | | | |
| c. Faculty | QIfaculty | 1 | Poor | 2 | 3 | 14 | 1 | 74 | 2 | 251 | 1 | | | | | | | |
| | | 2 | | 3 | 5 | 34 | 3 | 106 | 3 | 467 | 3 | | | | | | | |
| | | 3 | | 5 | 8 | 67 | 6 | 255 | 7 | 1,052 | 6 | | | | | | | |
| | | 4 | | 9 | 15 | 191 | 16 | 565 | 15 | 2,540 | 15 | 4.0 | | • | | | | |
| | | 5 | | 18 | 30 | 346 | 29 | 1,085 | 28 | 4,631 | 27 | 4.9 | 5.2 | 20 | 5.2 | 18 | 5.2 | 24 |
| | | 6 | F 11 . | 15 | 25 | 325 | 28 | 1,061 | 28 | 4,682 | 27 | | | | | | | |
| | | 7 | Excellent | 8 | 13 | 187 | 16 | 639 | 17 | 3,263 | 19 | | | | | | | |
| | | _ | Not applicable | 0 | 0 | 12 | 1 | 31 | 1 | 184 | 1 | | | | | | | |
| | | | Total | 60 | 100 | 1,176 | 100 | 3,816 | 100 | 17,070 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| First-Year Stud | dents ^a in | | | | | Frequency | Distrib | oution | S | | | | Sta | atistical | Comparis | ons ^k | | |
|---|-----------------------|---------------------|------------------|-------|-----|--------------------|---------|-----------|-----|-------------------|-----|------------|------------|------------|----------------|------------------|-----------|-----------|
| Aero and Engi | neering | | | | | | | | | 11005 2010 | | | | Your fi | rst-year stude | ents comp | ared with | |
| • | · · | | | UND | | Plains Public Plu | c Carn | angin Cl | 200 | NSSE 2016 2017 |) & | UND | Plains Pu | ıblic Dluc | Carnegie | Class | NSSE 2016 | 2 9. 2017 |
| Item wording | Variable | | | טאט | | Pidilis Public Piu | S Carri | legie Cia | 155 | 2017 | | OND | Pidilis Pt | Effect | Carriegie | Effect | N33E 2010 | Effect |
| or description | name ¹ | Values ⁿ | Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | size n | Mean | size " | Mean | size " |
| d. Student services staff | QIstaff | 1 | Poor | 1 | 2 | 29 | 2 | 137 | 4 | 564 | 3 | | | | | | | |
| (career services, | | 2 | | 2 | 3 | 32 | 3 | 140 | 4 | 593 | 3 | | | | | | | |
| student activities, housing, etc.) | | 3 | | 6 | 10 | 72 | 6 | 266 | 7 | 1,160 | 7 | | | | | | | |
| nousing, etc.) | | 4 | | 7 | 12 | 148 1 | 3 | 496 | 13 | 2,281 | 13 | | | | | | | |
| | | 5 | | 16 | 27 | 277 2 | 4 | 890 | 23 | 3,889 | 23 | 5.1 | 5.2 | 11 | 5.1 | 01 | 5.1 | 02 |
| | | 6 | | 17 | 28 | 285 2 | | 860 | 23 | 3,833 | 22 | | | | | | | |
| | | 7 | Excellent | 8 | 13 | 237 2 | 0 | 712 | 19 | 3,200 | 19 | | | | | | | |
| | | _ | Not applicable | 3 | 5 | | 8 | 304 | 8 | 1,550 | 9 | | | | | | | |
| | | | Total | 60 | 100 | 1,169 10 | | 3,805 | 100 | 17,070 | 100 | | | | | | | |
| e. Other administrative | QIadmin | 1 | Poor | 0 | 0 | | 3 | 154 | 4 | 632 | 4 | | | | | | | |
| staff and offices (registrar, financial aid, | | 2 | | 5 | 8 | | 3 | 139 | 4 | 702 | 4 | | | | | | | |
| etc.) | | 3 | | 4 | 7 | | 6 | 294 | 8 | 1,222 | 7 | | | | | | | |
| | | 4 | | 9 | 15 | | 3 | 574 | 15 | 2,507 | 15 | 5 0 | | | | | | |
| | | 5 | | 19 | 32 | 274 2 | | 862 | 23 | 3,810 | 22 | 5.0 | 5.2 | 11 | 5.0 | .01 | 5.0 | .01 |
| | | 6 | | 11 | 18 | 288 2 | | 840 | 22 | 3,735 | 22 | | | | | | | |
| | | 7 | Excellent | 11 | 18 | | 9 | 666 | 17 | 2,989 | 17 | | | | | | | |
| | | _ | Not applicable | 1 | 2 | | 8 | 285 | 7 | 1,489 | 9 | | | | | | | |
| | | | Total | 60 | 100 | 1,176 10 | 0 | 3,814 | 100 | 17,086 | 100 | | | | | | | |
| 14. How much does your | r institution en | nphasize | the following? | | | | | | | | | | | | | | | |
| a. Spending significant | empstudy | 1 | Very little | 1 | 2 | 12 | 1 | 44 | 1 | 195 | 1 | | | | | | | |
| amounts of time studying and on | | 2 | Some | 15 | 25 | 123 1 | 1 | 443 | 12 | 2,249 | 13 | | | | | | | |
| academic work | | 3 | Quite a bit | 30 | 50 | 516 4 | 4 | 1,731 | 45 | 7,815 | 46 | 3.0 | 3.3 *** | 52 | 3.3 *** | 46 | 3.2 ** | 41 |
| ucudenne work | | 4 | Very much | 14 | 23 | 518 4 | | 1,595 | 42 | 6,827 | 40 | | ▼ | | • | | • | |
| | | | Total | 60 | 100 | 1,169 10 | | 3,813 | 100 | 17,086 | 100 | | | | | | | |
| b. Providing support to | SEacademic | 1 | Very little | 3 | 5 | | 3 | 101 | 3 | 462 | 3 | | | | | | | |
| help students succeed academically | | 2 | Some | 13 | 22 | | 5 | 632 | 17 | 2,975 | 17 | • 0 | | | | | | |
| academicany | | 3 | Quite a bit | 37 | 62 | | | 1,721 | 45 | 7,599 | 45 | 2.8 | 3.2 *** | *49 | 3.1 *** | 43 | 3.1 ** | 41 |
| | | 4 | Very much | 7 | 12 | 433 3 | | 1,346 | 35 | 5,995 | 35 | | ▼ | | \blacksquare | | ▼ | |
| | | | Total | 60 | 100 | 1,164 10 | | 3,800 | 100 | 17,031 | 100 | | | | | | | |
| c. Using learning support | SElearnsup | 1 | Very little | 1 | 2 | | 3 | 154 | 4 | 727 | 4 | | | | | | | |
| services (tutoring services, writing | | 2 | Some | 19 | 32 | | 5 | 604 | 16 | 2,819 | 17 | 2.0 | | | | | | |
| center, etc.) | | 3 | Quite a bit | 28 | 47 | | 8 | 1,520 | 40 | 6,829 | 40 | 2.9 | 3.2 *** | 47 | 3.2 ** | 37 | 3.1 ** | 35 |
| | | 4 | Very much | 12 | 20 | 512 4 | | 1,521 | 40 | 6,672 | 39 | | ▼ | | • | | • | |
| | | | Total | 60 | 100 | 1,167 10 | 0 | 3,799 | 100 | 17,047 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| First-Year Stud | dents ^a in | | | | | Frequen | cy Di | istribution | S | | | | Sta | itistical | Compariso | ons ^k | | |
|--|-----------------------|---------------------|------------------------------|-------------|-----|-----------------|-------|--------------|---------|----------------|------|------|-----------|-------------------|-----------------|-------------------|-----------|-------------------|
| Aero and Engi | neering | | | | | | | | | NSSE 2016 | 5.8, | | | Your fir | rst-year studer | nts compo | ared with | |
| | | | | UND | | Plains Public I | Plus | Carnegie Cl | ass | 2017 | , u | UND | Plains Pu | blic Plus | Carnegie | Class | NSSE 2016 | & 2017 |
| Item wording | Variable | | | | | | | | | | | | | Effect | | Effect | | Effect |
| or description d. Encouraging contact | name ' SEdiverse | Values ⁿ | Response options Very little | Count 12 | 20 | Count 143 | 12 | Count 428 | % 11 | 1,782 | 10 | Mean | Mean | size ⁿ | Mean | size ⁿ | Mean | size ⁿ |
| among students from | BEAITEISC | 2 | Some | 26 | 43 | 388 | 33 | 1,160 | 30 | 4,831 | 28 | | | | | | | |
| different backgrounds | | 3 | Ouite a bit | 15 | 25 | 377 | 32 | 1,341 | 35 | 6,241 | 37 | 2.3 | 2.6 ** | 38 | 2.7 *** | 44 | 2.8 *** | 50 |
| (social, racial/ethnic, religious, etc.) | | 4 | Very much | 7 | 12 | 260 | 22 | 877 | 23 | 4,208 | 25 | | V | | ▼ | ••• | ▼ | .50 |
| rengious, etc.) | | | Total | 60 | 100 | 1,168 | 100 | 3,806 | 100 | 17,062 | 100 | | · · | | • | | • | |
| e. Providing opportunities | SEsocial | 1 | Very little | 2 | 3 | 43 | 4 | 197 | 5 | 888 | 5 | | | | | | | |
| to be involved socially | | 2 | Some | 20 | 33 | 272 | 23 | 893 | 23 | 3,865 | 23 | | | | | | | |
| | | 3 | Quite a bit | 28 | 47 | 490 | 42 | 1,608 | 42 | 7,222 | 42 | 2.8 | 3.0 * | 28 | 3.0 | 22 | 3.0 | 23 |
| | | 4 | Very much | 10 | 17 | 359 | 31 | 1,108 | 29 | 5,076 | 30 | | ∇ | | | | | |
| | | | Total | 60 | 100 | 1,164 | 100 | 3,806 | 100 | 17,051 | 100 | | | | | | | |
| f. Providing support for | SEwellness | 1 | Very little | 3 | 5 | 50 | 4 | 220 | 6 | 960 | 6 | | | | | | | |
| your overall well-being (recreation, health care, | | 2 | Some | 17 | 28 | 259 | 22 | 865 | 23 | 3,757 | 22 | | | | | | | |
| counseling, etc.) | | 3 | Quite a bit | 27 | 45 | 478 | 41 | 1,651 | 43 | 7,137 | 42 | 2.8 | 3.0 | 22 | 2.9 | 12 | 3.0 | 16 |
| <u>.</u> | | 4 | Very much | 13 | 22 | 378 | 32 | 1,060 | 28 | 5,179 | 30 | | | | | | | |
| | | | Total | 60 | 100 | 1,165 | 100 | 3,796 | 100 | 17,033 | 100 | | | | | | | |
| g. Helping you manage your non-academic | SEnonacad | 1 | Very little | 16 | 27 | 235 | 20 | 771 | 20 | 3,369 | 20 | | | | | | | |
| responsibilities (work, | | 2 | Some | 27 | 45 | 471 | 40 | 1,483 | 39 | 6,453 | 38 | 2.0 | | | | | | |
| family, etc.) | | 3 | Quite a bit | 17 | 28 | 318 | 27 | 1,116 | 29 | 5,026 | 29 | 2.0 | 2.3 ** | 32 | 2.3 ** | 33 | 2.4 *** | 36 |
| | | 4 | Very much Total | 0 | 0 | 142 | 12 | 438 | 12 | 2,216 | 13 | | • | | ▼ | | ▼ | |
| h. Attending campus | SEactivities | 1 | Very little | 5 | 100 | 1,166 | 100 | 3,808 | 100 | 17,064 | 100 | | | | | | | |
| activities and events | SEactivities | 2 | Some | 19 | 32 | 341 | 29 | 1,121 | 30 | 1,393 4,663 | 27 | | | | | | | |
| (performing arts, | | 3 | Ouite a bit | 22 | 37 | 450 | 39 | 1,520 | 40 | 6,908 | 41 | 2.8 | 2.8 | 04 | 2.8 | 01 | 2.8 | 06 |
| athletic events, etc.) | | 4 | Very much | 14 | 23 | 278 | 24 | 843 | 22 | 4,084 | 24 | 2.0 | 2.0 | 04 | 2.0 | 01 | 2.0 | 00 |
| | | • | Total | 60 | 100 | 1,163 | 100 | 3,796 | 100 | 17,048 | 100 | | | | | | | |
| i. Attending events that | SEevents | 1 | Very little | 9 | 15 | 189 | 16 | 643 | 17 | 2,510 | 15 | | | | | | | |
| address important | | 2 | Some | 32 | 54 | 453 | 39 | 1,450 | 38 | 6,192 | 36 | | | | | | | |
| social, economic, or | | 3 | Quite a bit | 14 | 24 | 353 | 30 | 1,199 | 32 | 5,686 | 33 | 2.2 | 2.4 | 23 | 2.4 | 21 | 2.5 ** | 30 |
| political issues | | 4 | Very much | 4 | 7 | 167 | 14 | 507 | 13 | 2,646 | 16 | | | | | | ∇ | |
| | | | Total | 59 | 100 | 1,162 | 100 | 3,799 | 100 | 17,034 | 100 | | | | | | • | |



Frequencies and Statistical Comparisons: Aero and Engineering

| First-Year Stu | dents ^a in | | | | | Frequer | ncy D | istribution | S | | | | St | atistical | Compari | sons ^k | | |
|--|----------------------------------|----------|------------------------|---------------|-----------|---------------|----------|--------------|---------|-----------------|---------------|------|-----------|------------|---------------|-------------------|-----------|----------|
| Aero and Eng | ineering | | | | | | | | | NSSE 2016 | 5. <i>8</i> . | | | Your fir | rst-year stud | ents comp | ared with | |
| | | | | UND | | Plains Public | Plus | Carnegie Cl | ass | 2017 | <i>,</i> | UND | Plains Pu | ublic Plus | Carnegi | e Class | NSSE 201 | 6 & 2017 |
| Item wording | Variable | | | | | | | | | | | | | Effect | | Effect | | Effect |
| or description | | Values " | | Count | % | Count | % | Count | % | Count | % | Mean | Mean | size " | Mean | size " | Mean | size " |
| 5. About how many ho | | | | ng the follow | | 4 | 0 | 10 | 0 | | 0 | | | | | | | |
| a. Preparing for class (studying, reading, | tmprephrs | 0 | 0 hrs | 0 | 0 | 4 | 0 | 12 | 0 | 67 | 0 | | | | | | | |
| writing, doing | (Recoded version | 3 | 1-5 hrs | 3 | 5 | 77 | 7 | 263 | 7 | 1,307 | 8 | | | | | | | |
| homework or lab work, | of tmprep created | 8 | 6-10 hrs | 10 | 17 | 190 | 16 | 651 | 17 | 2,859 | 17 | | | | | | | |
| analyzing data, | by NSSE. Values are estimated | 13 | 11-15 hrs 16-20 hrs | 15 10 | 25 | 257 278 | 22 | 771 842 | 20 | 3,605 3,636 | 21 | 17.7 | 17.0 | 00 | 17.0 | 07 | 17.1 | 00 |
| rehearsing, and other | number of hours | 23 | 21-25 hrs | 9 | 17 15 | 278 179 | 24 15 | | 22 | 2,581 | 21 15 | 17.7 | 17.0 | .09 | 17.2 | .07 | 17.1 | .08 |
| academic activities) | per week.) | 28 | 26-30 hrs | 9 | 13 | 91 | 8 | 619 318 | 16 8 | | 9 | | | | | | | |
| | | 33 | More than 30 hrs | 8 | 1.4 | 91 | 8 | 340 | 8 9 | 1,461 1,583 | 9 | | | | | | | |
| | | 33 | Total | | 14 100 | 1,175 | 100 | | 100 | | 100 | | | | | | | |
| b. Participating in co- | tmcocurrhrs | 0 | 0 hrs | 59 13 | 22 | 237 | 20 | 3,816 916 | 24 | 17,099 4,330 | 25 | | | | | | | |
| curricular activities | | 3 | 1-5 hrs | 32 | 53 | 428 | 36 | 1,325 | 35 | 5,943 | 35 | | | | | | | |
| (organizations, campus | (Recoded version | 8 | 6-10 hrs | 6 | 10 | 257 | 22 | 744 | 20 | 3,243 | 19 | | | | | | | |
| publications, student | of tmcocurr created by NSSE. | 13 | 11-15 hrs | 3 | 5 | 122 | 10 | 399 | 10 | 1,776 | 10 | | | | | | | |
| government, fraternity | Values are | 18 | 16-20 hrs | 2 | 3 | 67 | 6 | 232 | 6 | 929 | 5 | 5.4 | 6.7 | 19 | 6.4 | 15 | 6.2 | 12 |
| or sorority, | estimated number | 23 | 21-25 hrs | 2 | 3 | 38 | 3 | 94 | 2 | 438 | 3 | J.T | 0.7 | 19 | 0.4 | 13 | 0.2 | 12 |
| intercollegiate or intramural sports, etc.) | of hours per | 28 | 26-30 hrs | 2 | 3 | 6 | 1 | 37 | 1 | 150 | 1 | | | | | | | |
| muamurar sports, etc.) | week.) | 33 | More than 30 hrs | 0 | 0 | 20 | 2 | 58 | 2 | 240 | 1 | | | | | | | |
| | | 55 | Total | 60 | 100 | 1.175 | 100 | 3,805 | 100 | 17,049 | 100 | | | | | | | |
| c. Working for pay | tmworkonhrs | 0 | 0 hrs | 48 | 80 | 963 | 82 | 3,043 | 80 | 13,690 | 80 | | | | | | | |
| on campus | (Recoded version | 3 | 1-5 hrs | 1 | 2 | 31 | 3 | 125 | 3 | 609 | 4 | | | | | | | |
| | of tmworkon | 8 | 6-10 hrs | 5 | 8 | 66 | 6 | 273 | 7 | 1,144 | 7 | | | | | | | |
| | created by NSSE. | 13 | 11-15 hrs | 4 | 7 | 65 | 6 | 170 | 4 | 794 | 5 | | | | | | | |
| | Values are | 18 | 16-20 hrs | 2 | 3 | 34 | 3 | 156 | 4 | 516 | 3 | 2.2 | 2.1 | .01 | 2.3 | 03 | 2.3 | 02 |
| | estimated number | 23 | 21-25 hrs | 0 | 0 | 10 | 1 | 27 | 1 | 159 | 1 | | | | | | | |
| | of hours per | 28 | 26-30 hrs | 0 | 0 | 4 | 0 | 6 | 0 | 31 | 0 | | | | | | | |
| | week.) | 33 | More than 30 hrs | 0 | 0 | 2 | 0 | 15 | 0 | 135 | 1 | | | | | | | |
| | | | Total | 60 | 100 | 1,175 | 100 | 3,815 | 100 | 17,078 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| irst-Year Stu | idents ^a in | | | | | Frequer | ncy D | istribution | S | | | | Sta | atistical | Compariso | ons ^k | | |
|--|----------------------------------|----------|-------------------------------|-------|-----|---------------|-------|-------------|-----|-----------|-----|-------|-----------|------------------|----------------|------------------|-----------|---------------|
| Nero and Eng | ineering | | | | | | | | | | | | | Your fi | st-year studer | nts comp | ared with | |
| | | | | | | | | | | NSSE 2016 | 5 & | LINIS | | | | | | |
| | | | | UND | | Plains Public | Plus | Carnegie Cl | ass | 2017 | | UND | Plains Pu | | Carnegie | | NSSE 2016 | |
| Item wording or description | Variable name ^l | Values ' | ⁿ Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size " | Mean | Effect size " | Mean | Effec size |
| d. Working for pay | tmworkoffhrs | 0 | 0 hrs | 55 | 92 | 934 | 80 | 3,081 | 81 | 13,240 | 78 | WEUII | Wedn | 3/26 | Weari | 3126 | Weari | 3120 |
| off campus | | 3 | 1-5 hrs | 1 | 2 | 53 | 5 | 129 | 3 | 660 | 4 | | | | | | | |
| | (Recoded version of tmworkoff | 8 | 6-10 hrs | 1 | 2 | 34 | 3 | 155 | 4 | 722 | 4 | | | | | | | |
| | created by NSSE. | 13 | 11-15 hrs | 1 | 2 | 35 | 3 | 131 | 3 | 683 | 4 | | | | | | | |
| | Values are | 18 | 16-20 hrs | 0 | 0 | 53 | 5 | 118 | 3 | 680 | 4 | 1.2 | 3.0 ** | 25 | 2.8 ** | 23 | 3.5 *** | 29 |
| | estimated number | 23 | 21-25 hrs | 2 | 3 | 28 | 2 | 73 | 2 | 445 | 3 | | ∇ | | ∇ | | ∇ | |
| | of hours per | 28 | 26-30 hrs | 0 | 0 | 9 | 1 | 46 | 1 | 221 | 1 | | · · | | * | | * | |
| | week.) | 33 | More than 30 hrs | 0 | 0 | 22 | 2 | 67 | 2 | 420 | 2 | | | | | | | |
| | | | Total | 60 | 100 | 1,168 | 100 | 3,800 | 100 | 17,071 | 100 | | | | | | | |
| Estimated number of | tmworkhrs | | | | | | | | | | | | | | | | | |
| hours working for pay | (Continuous | | | | | | | | | | | | | | | | | |
| | variable created | | | | | | | | | | | 3.4 | 5.0 | 18 | 5.1 * | 19 | 5.8 ** | 24 |
| | by NSSE) | | | | | | | | | | | | | | ∇ | | ∇ | |
| | | | | | | | | | | | | | | | | | | |
| e. Doing community | tmservicehrs | 0 | 0 hrs | 34 | 57 | 699 | 60 | 2,306 | 61 | 10,452 | 61 | | | | | | | |
| service or volunteer | (Recoded version | 3 | 1-5 hrs | 26 | 43 | 373 | 32 | 1,154 | 30 | 4,955 | 29 | | | | | | | |
| work | of tmservice | 8 | 6-10 hrs | 0 | 0 | 40 | 3 | 169 | 4 | 806 | 5 | | | | | | | |
| | created by NSSE. | 13 | 11-15 hrs | 0 | 0 | 25 | 2 | 85 | 2 | 392 | 2 | | | | | | | |
| | Values are | 18 | 16-20 hrs | 0 | 0 | 18 | 2 | 52 | 1 | 225 | 1 | 1.3 | 2.1 ** | 19 | 2.1 *** | 19 | 2.1 *** | 19 |
| | estimated number of hours per | 23 | 21-25 hrs | 0 | 0 | 8 | 1 | 21 | 1 | 119 | 1 | | ∇ | | ∇ | | ∇ | |
| | week.) | 28 | 26-30 hrs | 0 | 0 | 1 | 0 | 1 | 0 | 25 | 0 | | | | | | | |
| | , | 33 | More than 30 hrs | 0 | 0 | 3 | 0 | 18 | 0 | 64 | 0 | | | | | | | |
| | | | Total | 60 | 100 | 1,167 | 100 | 3,806 | 100 | 17,038 | 100 | | | | | | | |
| f. Relaxing and | tmrelaxhrs | 0 | 0 hrs | 2 | 3 | 14 | 1 | 62 | 2 | 290 | 2 | | | | | | | |
| socializing (time with | (Recoded version | 3 | 1-5 hrs | 14 | 23 | 185 | 16 | 742 | 19 | 3,410 | 20 | | | | | | | |
| friends, video games, TV or videos, keeping | of tmrelax created | 8 | 6-10 hrs | 15 | 25 | 324 | 28 | 1,031 | 27 | 4,689 | 27 | | | | | | | |
| up with friends online, | by NSSE. Values | 13 | 11-15 hrs | 13 | 22 | 289 | 25 | 869 | 23 | 3,744 | 22 | | | | | | | |
| etc.) | are estimated | 18 | 16-20 hrs | 7 | 12 | 175 | 15 | 521 | 14 | 2,368 | 14 | 11.7 | 12.9 | 15 | 12.4 | 10 | 12.3 | 08 |
| | number of hours per week.) | 23 | 21-25 hrs | 5 | 8 | 83 | 7 | 242 | 6 | 1,059 | 6 | | | | | | | |
| | per week.) | 28 | 26-30 hrs | 1 | 2 | 31 | 3 | 126 | 3 | 509 | 3 | | | | | | | |
| | | 33 | More than 30 hrs | 3 | 5 | 68 | 6 | 218 | 6 | 1,000 | 6 | | | | | | | |
| | | | Total | 60 | 100 | 1,169 | 100 | 3,811 | 100 | 17,069 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| First-Year Stu | dents ^a in | | | | | Frequer | ncy D | istribution | S | | | | Sta | atistical (| Comparis | ons ^k | | |
|--------------------------------|----------------------------------|----------|------------------------|-----------|------|---------------|---------|-------------|-----|-----------|-----|------------|-----------|------------------|---------------|------------------|-----------|-----------------------------|
| Aero and Eng | ineering | | | | | | | | | | | | | Your fir | st-year stude | nts comp | ared with | |
| ricio dila Elig | ccig | | | | | | | | | NSSE 2016 | 5 & | | | | | | | |
| | | | | UND | | Plains Public | Plus | Carnegie Cl | ass | 2017 | | UND | Plains Pu | | Carnegie | | NSSE 2016 | |
| Item wording or description | Variable name ^l | Values " | Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size " | Mean | Effect size " | Mean | Effect size ⁿ |
| g. Providing care for | tmcarehrs | 0 | 0 hrs | 56 | 93 | 1,022 | 88 | 3,197 | 84 | 14,131 | 83 | Weum | ivieuri | 3/26 | Weuli | 3/26 | ivieuri | 3126 |
| dependents (children, | (Recoded version | 3 | 1-5 hrs | 3 | 5 | 58 | 5 | 292 | 8 | 1,333 | 8 | | | | | | | |
| parents, etc.) | of tmcare created | 8 | 6-10 hrs | 0 | 0 | 23 | 2 | 120 | 3 | 569 | 3 | | | | | | | |
| | by NSSE. Values | 13 | 11-15 hrs | 0 | 0 | 24 | 2 | 73 | 2 | 384 | 2 | | | | | | | |
| | are estimated | 18 | 16-20 hrs | 1 | 2 | 12 | 1 | 46 | 1 | 237 | 1 | .5 | 1.5 ** | 20 | 1.5 ** | 21 | 1.7 *** | 24 |
| | number of hours | 23 | 21-25 hrs | 0 | 0 | 11 | 1 | 24 | 1 | 130 | 1 | | ∇ | | ∇ | | ∇ | |
| | per week.) | 28 | 26-30 hrs | 0 | 0 | 3 | 0 | 7 | 0 | 40 | 0 | | · · | | • | | • | |
| | | 33 | More than 30 hrs | 0 | 0 | 15 | 1 | 35 | 1 | 204 | 1 | | | | | | | |
| | | | Total | 60 | 100 | 1,168 | 100 | 3,794 | 100 | 17,028 | 100 | | | | | | | |
| h. Commuting to campus | tmcommutehrs | 0 | 0 hrs | 29 | 48 | 375 | 32 | 1,536 | 40 | 7,284 | 43 | | | | | | | |
| (driving, walking, etc.) | (Recoded version | 3 | 1-5 hrs | 25 | 42 | 600 | 51 | 1,474 | 39 | 6,271 | 37 | | | | | | | |
| | of tmcommute | 8 | 6-10 hrs | 6 | 10 | 114 | 10 | 481 | 13 | 2,039 | 12 | | | | | | | |
| | created by NSSE. | 13 | 11-15 hrs | 0 | 0 | 37 | 3 | 168 | 4 | 761 | 4 | | | | | | | |
| | Values are | 18 | 16-20 hrs | 0 | 0 | 26 | 2 | 71 | 2 | 332 | 2 | 2.1 | 3.6 * | 31 | 3.7 *** | 30 | 3.6 *** | 29 |
| | estimated number of hours per | 23 | 21-25 hrs | 0 | 0 | 3 | 0 | 28 | 1 | 169 | 1 | | ▼ | | ▼ | | ∇ | |
| | week.) | 28 | 26-30 hrs | 0 | 0 | 2 | 0 | 14 | 0 | 63 | 0 | | · · | | • | | • | |
| | | 33 | More than 30 hrs | 0 | 0 | 12 | 1 | 40 | 1 | 165 | 1 | | | | | | | |
| | | 55 | Total | 60 | 100 | 1,169 | 100 | 3,812 | 100 | 17,084 | 100 | | | | | | | |
| 16. Of the time you spe | nd preparing for | class i | n a typical 7-day week | about how | much | is on assigna | ed read | ding? | | | | | | | | | | |
| or or the time you spe | reading | 1 | Very little | 19 | 32 | 304 | 26 | 860 | 23 | 3,656 | 21 | | | | | | | |
| | | 2 | Some | 26 | 44 | 521 | 44 | 1,688 | 44 | 7,433 | 44 | | | | | | | |
| | | 3 | About half | 10 | 17 | 208 | 18 | 817 | 21 | 3,782 | 22 | 2.0 | 2.2 | 15 | 2.2 | 21 | 2.3 * | 26 |
| | | 4 | Most | 1 | 2 | 108 | 9 | 351 | 9 | 1,673 | 10 | 2.0 | 2.2 | 13 | 2.2 | 21 | Z.3 ▼ | 20 |
| | | 5 | Almost all | 3 | 5 | 32 | 3 | 90 | 2 | 535 | 3 | | | | | | ٧ | |
| | | 3 | Total | 59 | 100 | 1,173 | 100 | 3,806 | 100 | 17,079 | 100 | | | | | | | |
| | | | 10141 | 39 | 100 | 1,1/3 | 100 | 3,000 | 100 | 17,079 | 100 | | | | | | | |
| | tmreadinghrs | | | | | | | | | | | | | | | | | |
| (Continuous varie | able created by NSSE | Caloul | atad as a proportion | | | | | | | | | 5 2 | | | | | | |
| | ed on reading, where | | | | | | | | | | | 5.3 | 5.5 | 05 | 5.8 | 10 | 5.9 | 12 |
| | half=.50; Most=.75, | | | | | | | | | | | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| First-Year St | tudents ^a in | | | | | Frequer | ncy D | istributior | S | | | | St | atistical | Comparis | ons ^k | | |
|---|------------------------------------|---------|--------------------------------|---------|----------|---------------|----------|--------------|----------|----------------|-----------|------|-----------|-----------------------------|---------------|------------------|-----------|-----------------------------|
| Aero and Er | ngineering | | | | | | | | | | | | | Your fir | st-year stude | nts compo | ared with | |
| Acro and Er | ignicering | | | | | | | | | NSSE 2016 | 5 & | | | | | | | |
| | | | | UND | | Plains Public | Plus | Carnegie C | ass | 2017 | | UND | Plains Pu | | Carnegie | | NSSE 2016 | |
| Item wording or description | Variable name ^l | Values' | " Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | Mean | Effect size " | Mean | Effect size ⁿ |
| | tmreadinghrscol | 1 | 0 hrs | 0 | 0 | 4 | 0 | 12 | 0 | 66 | 0 | | | | | | | |
| | (Collapsed version of tmreadinghrs | 2 | More than zero, up to 5 hrs | 33 | 57 | 721 | 62 | 2,187 | 58 | 9,658 | 57 | | | | | | | |
| | created by NSSE.) | 3 | More than 5, up to 10 hrs | 21 | 36 | 294 | 25 | 1,055 | 28 | 4,777 | 28 | | | | | | | |
| | | 4 | More than 10, up to 15 hrs | 2 | 3 | 78 | 7 | 300 | 8 | 1,303 | 8 | | | | | | | |
| | | 5 | More than 15, up to 20 hrs | 0 | 0 | 42 | 4 | 134 | 4 | 691 | 4 | | | | | | | |
| | | 6 | More than 20, up to 25 hrs | 1 | 2 | 21 | 2 | 78 | 2 | 388 | 2 | | | | | | | |
| | | 7 | More than 25 hrs | I 50 | 2 | 10 | 1 | 30 | 1 | 146 | 1 | | | | | | | |
| | | | Total | 58 | 100 | 1,170 | 100 | 3,796 | 100 | 17,029 | 100 | | | | | | | |
| | _ | | itution contributed to | | | _ | | _ | | _ | | • | | | | | | |
| Writing clearly and effectively | pgwrite | 1 | Very little | 10 | 17 | 230 | 20 | 601 | 16 | 2,124 | 12 | | | | | | | |
| checuvery | | 2 | Some | 21 | 35 | 453 | 39 | 1,255 | 33 | 5,622 | 33 | 2.4 | | | | | | |
| | | 3 | Quite a bit | 23 | 38 10 | 348 144 | 30 12 | 1,371 584 | 36 15 | 6,608 2,736 | 39 | 2.4 | 2.3 | .08 | 2.5 | 10 | 2.6 | 18 |
| | | 4 | Very much Total | 60 | 100 | 1,175 | 100 | 3,811 | 100 | 17,090 | 16 100 | | | | | | | |
| b. Speaking clearly and | l pgspeak | 1 | | 18 | 30 | 229 | 20 | 717 | 19 | 2,657 | 16 | | | | | | | |
| effectively | т рдзреак | 2 | Some | 20 | 33 | 450 | 38 | 1,362 | 36 | 5,996 | 35 | | | | | | | |
| | | 3 | Quite a bit | 18 | 30 | 358 | 31 | 1,205 | 32 | 5,903 | 35 | 2.1 | 2.3 | 23 | 2.4 * | 28 | 2.5 ** | 38 |
| | | 4 | Very much | 4 | 7 | 136 | 12 | 518 | 14 | 2,515 | 15 | | 2.3 | .23 | ▽ | .20 | V | .50 |
| | | | Total | 60 | 100 | 1,173 | 100 | 3,802 | 100 | 17,071 | 100 | | | | • | | • | |
| c. Thinking critically a | nd pgthink | 1 | Very little | 3 | 5 | 35 | 3 | 135 | 4 | 584 | 3 | | | | | | | |
| analytically | | 2 | Some | 7 | 12 | 202 | 17 | 715 | 19 | 3,128 | 18 | | | | | | | |
| | | 3 | Quite a bit | 37 | 62 | 533 | 45 | 1,706 | 45 | 7,582 | 44 | 3.0 | 3.1 | 14 | 3.1 | 09 | 3.1 | 11 |
| | | 4 | Very much | 13 | 22 | 405 | 34 | 1,257 | 33 | 5,805 | 34 | | | | | | | |
| | | | Total | 60 | 100 | 1,175 | 100 | 3,813 | 100 | 17,099 | 100 | | | | | | | |
| d. Analyzing numerical | l pganalyze | 1 | Very little | 5 | 8 | 42 | 4 | 178 | 5 | 792 | 5 | | | | | | | |
| and statistical | | 2 | Some | 4 | 7 | 223 | 19 | 816 | 21 | 3,601 | 21 | | | | | | | |
| information | | 3 | Quite a bit | 34 | 57 | 490 | 42 | 1,563 | 41 | 7,027 | 41 | 3.1 | 3.1 | 05 | 3.0 | .03 | 3.0 | .0. |
| | | 4 | Very much | 17 | 28 | 418 | 36 | 1,256 | 33 | 5,669 | 33 | | | | | | | |
| | | | Total | 60 | 100 | 1,173 | 100 | 3,813 | 100 | 17,089 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| First-Year Stud | dents ^a in | | | | | Frequenc | y Di | stribution | S | | | | Sta | | Comparis | | | |
|---|-----------------------|---------------------|------------------------------|----------|-----------|-----------------|-----------|--------------|-----------|-----------------|------------------|------|-----------|------------|----------------|-----------|-----------|--------|
| Aero and Engi | neering | | | | | | | | | NSSE 2016 | ; <i>&</i> , | | | Your fir | rst-year stude | nts compo | ared with | |
| | | | | UND | | Plains Public P | lus | Carnegie Cl | ass | 2017 | , u | UND | Plains Pu | ıblic Plus | Carnegie | Class | NSSE 2016 | & 2017 |
| Item wording | Variable | | | | | | | | | | | | | Effect | | Effect | | Effect |
| or description e. Acquiring job- or work- | name ' pgwork | Values ¹ | Response options Very little | Count 9 | % 15 | Count 105 | % 9 | Count 405 | % 11 | 1,898 | <u>%</u> 11 | Mean | Mean | size " | Mean | size " | Mean | size " |
| related knowledge and | pgwork | 2 | Some | 20 | 33 | | 31 | 1,215 | 32 | 5,430 | 32 | | | | | | | |
| skills | | 3 | Ouite a bit | 17 | 28 | | 37 | 1,365 | 36 | 6,090 | 36 | 2.6 | 2.7 | 15 | 2.7 | 09 | 2.7 | 08 |
| | | 4 | Very much | 14 | 23 | | 23 | 821 | 22 | 3,676 | 22 | | 217 | | 2., | .07 | 2., | .00 |
| | | | Total | 60 | 100 | 1,177 | 100 | 3,806 | 100 | 17,094 | 100 | | | | | | | |
| f. Working effectively | pgothers | 1 | Very little | 6 | 10 | 62 | 5 | 226 | 6 | 969 | 6 | | | | | | | |
| with others | | 2 | Some | 18 | 30 | 351 | 30 | 1,088 | 29 | 4,618 | 27 | | | | | | | |
| | | 3 | Quite a bit | 24 | 40 | 512 | 44 | 1,583 | 42 | 7,173 | 42 | 2.7 | 2.8 | 12 | 2.8 | 16 | 2.9 | 20 |
| | | 4 | Very much | 12 | 20 | 245 | 21 | 914 | 24 | 4,337 | 25 | | | | | | | |
| | | | Total | 60 | 100 | 1,170 | 100 | 3,811 | 100 | 17,097 | 100 | | | | | | | |
| g. Developing or | pgvalues | 1 | Very little | 9 | 15 | 210 | 18 | 589 | 15 | 2,385 | 14 | | | | | | | |
| clarifying a personal code of values and | | 2 | Some | 19 | 32 | 396 | 34 | 1,176 | 31 | 5,224 | 31 | | | | | | | |
| ethics | | 3 | Quite a bit | 28 | 47 | 390 | 33 | 1,316 | 34 | 5,974 | 35 | 2.5 | 2.5 | 01 | 2.6 | 13 | 2.6 | 18 |
| | | 4 | Very much | 4 | 7 | 178 | 15 | 735 | 19 | 3,515 | 21 | | | | | | | |
| | | | Total | 60 | 100 | | 100 | 3,816 | 100 | 17,098 | 100 | | | | | | | |
| h. Understanding people | pgdiverse | 1 | Very little | 13 | 22 | | 17 | 538 | 14 | 2,251 | 13 | | | | | | | |
| of other backgrounds (economic, | | 2 | Some | 25 | 42 | | 37 | 1,265 | 33 | 5,401 | 32 | | | | | | | |
| racial/ethnic, political, | | 3 | Quite a bit | 15 | 25 | | 31 | 1,266 | 33 | 5,943 | 35 | 2.2 | 2.4 | 22 | 2.6 ** | 36 | 2.6 ** | 41 |
| religious, nationality, | | 4 | Very much | 6 | 10 | 179 | 15 | 745 | 20 | 3,486 | 20 | | | | \blacksquare | | ▼ | |
| etc.) | | | Total | 59 | 100 | | 100 | 3,814 | 100 | 17,081 | 100 | | | | | | | |
| i. Solving complex real- world problems | pgprobsolve | 1 | Very little | 10 | 17 | | 10 | 381 | 10 | 1,664 | 10 | | | | | | | |
| world problems | | 2 | Some | 18 | 31 | | 31 | 1,169 | 31 | 5,170 | 30 | 26 | | | | | | |
| | | 3 | Quite a bit | 18 | 31 | | 37 | 1,413 | 37 | 6,382 | 37 | 2.6 | 2.7 | 16 | 2.7 | 15 | 2.7 | 17 |
| | | 4 | Very much Total | 13 | 22 100 | | 23 100 | 852 | 22 100 | 3,885 | 23 100 | | | | | | | |
| j. Being an informed and | pgcitizen | 1 | Very little | 59 15 | 25 | 205 | 18 | 3,815 610 | 16 | 17,101 2,524 | 15 | | | | | | | |
| active citizen | pgcitizeti | 2 | Some | 26 | 43 | 464 | 40 | 1,383 | 36 | 5,950 | 35 | | | | | | | |
| | | 3 | Quite a bit | 12 | 20 | | 29 | 1,239 | 33 | 5,734 | 34 | 2.2 | 2.4 | 23 | 2.5 * | 30 | 2.5 ** | 36 |
| | | 4 | Very much | 7 | 12 | 164 | 14 | 576 | 15 | 2,835 | 17 | 4.4 | 2.4 | 43 | 2.5 * | 30 | ₹.5 *** | 30 |
| | | 7 | Total | 60 | 100 | | 100 | 3,808 | 100 | 17,043 | 100 | | | | • | | • | |
| | | | | 00 | 100 | -,-,- | -00 | 2,000 | -00 | 1.,0.0 | | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| First-Year St | udents ^a in | | | | | Freque | ncy D | istribution | าร | | | | Sta | atistical | Comparis | ons ^k | | |
|--------------------------------|-------------------------------|----------|-------------------------------|-----------------|--------|---------------|-------|-------------|------|-------------------|-----|------|-----------|------------------|---------------|------------------|-----------|------------------|
| Aero and En | gineering | | | | | | | | | | | | | Your fi | rst-year stud | ents comp | ared with | |
| | 8 | | | UND | | Plains Public | Plus | Carnegie C | lass | NSSE 2010 2017 | 6 & | UND | Plains Pu | ublic Plus | Carnegio | e Class | NSSE 2016 | 5 & 2017 |
| Item wording or description | Variable name ^I | Values ' | ⁿ Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size " | Mean | Effect size " | Mean | Effect size " |
| 18. How would you e | evaluate your enti | re educa | tional experience at th | nis institution | ? | | | | | | | | | | | | | |
| | evalexp | 1 | Poor | 1 | 2 | 17 | 1 | 65 | 2 | 345 | 2 | | | | | | | |
| | | 2 | Fair | 15 | 25 | 106 | 9 | 477 | 12 | 2,048 | 12 | | | | | | | |
| | | 3 | Good | 25 | 42 | 609 | 52 | 1,843 | 48 | 8,264 | 48 | 3.0 | 3.3 * | 33 | 3.2 | 25 | 3.2 | 25 |
| | | 4 | Excellent | 19 | 32 | 446 | 38 | 1,434 | 38 | 6,449 | 38 | | ▼ | | | | | |
| | | | Total | 60 | 100 | 1,178 | 100 | 3,819 | 100 | 17,106 | 100 | | | | | | | |
| 19. If you could start | t over again, woul | d you go | to the same institution | you are nov | v atte | ending? | | | | | | | | | | | | |
| | sameinst | 1 | Definitely no | 2 | 3 | 23 | 2 | 109 | 3 | 526 | 3 | | | | | | | |
| | | 2 | Probably no | 14 | 23 | 91 | 8 | 411 | 11 | 1,844 | 11 | | | | | | | |
| | | 3 | Probably yes | 26 | 43 | 500 | 42 | 1,656 | 43 | 7,328 | 43 | 3.0 | 3.4 *** | *51 | 3.3 ** | 35 | 3.3 ** | 34 |
| | | 4 | Definitely yes | 18 | 30 | 563 | 48 | 1,641 | 43 | 7,411 | 43 | | ▼ | | ▼ | | • | |
| | | | Total | 60 | 100 | 1,177 | 100 | 3,817 | 100 | 17,109 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| Seniors ^a in | | | | | | Freque | ncy D | istribution | S | | | | Sta | atistical | Comparis | ons ^k | | |
|-------------------------------------|-------------------|---------------------|-----------------------|--------------|-----|---------------|-------|-------------|-----|-----------|-----|------|-----------|-----------|----------------|------------------|-----------|------------------|
| Aero and Eng | ineering | | | | | | | | | | | | | Y | our seniors co | mpared v | vith | |
| 10.0 0.10. 2.18 | | | | | | | | | | NSSE 2016 | 5 & | LIND | | | | | | |
| | Variable | | | UND | | Plains Public | Plus | Carnegie Cl | ass | 2017 | | UND | Plains Pu | Effect | Carnegie | Class | NSSE 2016 | & 2017 Effect |
| Item wording or description | name ^I | Values ^m | Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | size " | Mean | size " | Mean | size " |
| . During the current s | chool year, abou | t how o | ften have you done th | e following? | | | | | | | | | | | | | | |
| a. Asked questions or | askquest | 1 | Never | 10 | 6 | 68 | 4 | 187 | 4 | 875 | 4 | | | | | | | |
| contributed to course | | 2 | Sometimes | 65 | 38 | 618 | 39 | 1,720 | 37 | 7,526 | 35 | | | | | | | |
| discussions in other ways | | 3 | Often | 60 | 35 | 507 | 32 | 1,535 | 33 | 7,219 | 34 | 2.7 | 2.8 | 04 | 2.8 | 08 | 2.8 | 13 |
| ways | | 4 | Very often | 38 | 22 | 377 | 24 | 1,145 | 25 | 5,851 | 27 | | | | | | | |
| | | | Total | 173 | 100 | 1,570 | 100 | 4,587 | 100 | 21,471 | 100 | | | | | | | |
| b. Prepared two or more | drafts | 1 | Never | 40 | 23 | 421 | 27 | 1,205 | 26 | 5,383 | 25 | | | | | | | |
| drafts of a paper or | | 2 | Sometimes | 61 | 35 | 630 | 40 | 1,785 | 39 | 8,140 | 38 | | | | | | | |
| assignment before turning it in | | 3 | Often | 52 | 30 | 361 | 23 | 1,056 | 23 | 5,182 | 24 | 2.3 | 2.2 | .14 | 2.2 | .09 | 2.2 | .05 |
| turning it in | | 4 | Very often | 19 | 11 | 152 | 10 | 533 | 12 | 2,719 | 13 | | | | | | | |
| | | | Total | 172 | 100 | 1,564 | 100 | 4,579 | 100 | 21,424 | 100 | | | | | | | |
| c. Come to class without | unpreparedr | 1 | Very often | 12 | 7 | 85 | 5 | 280 | 6 | 1,400 | 7 | | | | | | | |
| completing readings or | (Reverse-coded | 2 | Often | 19 | 11 | 281 | 18 | 760 | 17 | 3,523 | 16 | | | | | | | |
| assignments | version of | 3 | Sometimes | 98 | 57 | 813 | 52 | 2,436 | 53 | 11,688 | 55 | 3.0 | 3.0 | .06 | 3.0 | .07 | 2.9 | .09 |
| | unprepared | 4 | Never | 44 | 25 | 385 | 25 | 1,103 | 24 | 4,829 | 23 | | | | | | | |
| | created by NSSE.) | | Total | 173 | 100 | 1,564 | 100 | 4,579 | 100 | 21,440 | 100 | | | | | | | |
| d. Attended an art exhibit, | attendart | 1 | Never | 94 | 54 | 770 | 49 | 2,253 | 49 | 10,354 | 48 | | | | | | | |
| play, or other arts | | 2 | Sometimes | 62 | 36 | 592 | 38 | 1,718 | 37 | 8,192 | 38 | | | | | | | |
| performance (dance, music, etc.) | | 3 | Often | 13 | 8 | 143 | 9 | 441 | 10 | 2,094 | 10 | 1.6 | 1.7 | 11 | 1.7 | 13 | 1.7 | 14 |
| music, etc.) | | 4 | Very often | 4 | 2 | 54 | 3 | 172 | 4 | 813 | 4 | | | | | | | |
| | | | Total | 173 | 100 | 1,559 | 100 | 4,584 | 100 | 21,453 | 100 | | | | | | | |
| e. Asked another student | CLaskhelp | 1 | Never | 28 | 16 | 88 | 6 | 265 | 6 | 1,259 | 6 | | | | | | | |
| to help you understand | | 2 | Sometimes | 49 | 28 | 484 | 31 | 1,462 | 32 | 6,959 | 32 | | | | | | | |
| course material | | 3 | Often | 56 | 32 | 606 | 39 | 1,625 | 35 | 7,629 | 36 | 2.6 | 2.8 * | 22 | 2.8 ** | 24 | 2.8 * | 22 |
| | | 4 | Very often | 40 | 23 | 382 | 24 | 1,234 | 27 | 5,621 | 26 | | ∇ | | ∇ | | ∇ | |
| | | | Total | 173 | 100 | 1,560 | 100 | 4,586 | 100 | 21,468 | 100 | | | | | | | |
| f. Explained course | CLexplain | 1 | Never | 18 | 10 | 26 | 2 | 80 | 2 | 411 | 2 | | | | | | | |
| material to one or more | | 2 | Sometimes | 48 | 28 | 416 | 27 | 1,120 | 24 | 5,347 | 25 | | | | | | | |
| students | | 3 | Often | 66 | 38 | 692 | 44 | 1,976 | 43 | 9,028 | 42 | 2.8 | 3.0 ** | 28 | 3.0 *** | 35 | 3.0 *** | 34 |
| | | 4 | Very often | 41 | 24 | 432 | 28 | 1,412 | 31 | 6,684 | 31 | | ∇ | | ▼ | | ▼ | |
| | | | Total | 173 | 100 | 1,566 | 100 | 4,588 | 100 | 21,470 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| Seniors ^a in | niors ^a in ro and Engineering | | | | | Frequen | cy D | istribution | S | | | | Sta | tistical | Compariso | ons ^k | | |
|--|---|---------|------------------------|--------------|----------|---------------|---------|----------------|----------|---------------------------------------|----------|------|------------|-------------------|----------------|------------------|-----------|--------|
| Aero and Engi | o and Engineering In wording Variable name Values Response optice Expared for exams by CLstudy 1 Never Cussing or working 2 Sometimes Custing or working 3 Often Total Orked with other CLproject 1 Never dents on course Custing or working 2 Sometimes Orked with other CLproject 1 Never | | | | | | | | | NSSE 2016 | - 0 | | | Y | our seniors co | mpared w | vith | |
| | | | | UND | | Plains Public | Plus | Carnegie Cl | ass | 2017 | οα | UND | Plains Pub | lic Plus | Carnegie | Class | NSSE 2016 | & 2017 |
| Item wording | Variable | | | 0.115 | | | | carriegie e. | | 2017 | | | | Effect | carriegie | Effect | | Effect |
| or description | | Values' | | Count | % | Count | % | Count | % | Count | % | Mean | Mean | size ⁿ | Mean | size " | Mean | size " |
| | CLstudy | 1 | | 39 | 23 | 155 | 10 | 409 | 9 | 1,983 | 9 | | | | | | | |
| through course material | | _ | | 49 | 28 | 444 | 28 | 1,248 | 27 | 5,849 | 27 | 2.5 | | | | | | |
| with other students | | | | 50 | 29 | 500 | 32 | 1,417 | 31 | 6,698 | 31 | 2.5 | 2.8 *** | 36 | 2.9 *** | 42 | 2.9 *** | 41 |
| | | 4 | • | 35 | 20 | 468 | 30 | 1,515 | 33 | 6,936 | 32 | | ▼ | | ▼ | | • | |
| 1. Wasterdayida adam | CIit | 1 | | 173 | 100 | 1,567 | 100 | 4,589 | 100 | 21,466 | 100 | | | | | | | |
| n. worked with other students on course | CLproject | _ | | 17 | 10 | 24 267 | 2 17 | 99 | 2 | 458 | | | | | | | | |
| projects or assignments | | | | 36 71 | 21 41 | | 39 | 699 | 15 | 3,517 7,512 | 16 35 | 2.9 | 2.0 *** | 42 | 2.2 *** | 50 | 22 *** | 47 |
| | | - | | 49 | 28 | 612 663 | 42 | 1,627 2,161 | 35 47 | 9,984 | 33 46 | 2.9 | 3.2 *** | 43 | 3.3 *** | 50 | 3.3 *** | 47 |
| | | 4 | • | 173 | 100 | 1,566 | 100 | 4,586 | 100 | 21,471 | 100 | | • | | • | | • | |
| Given a course | procent | 1 | | 32 | 18 | 1,300 | 12 | 514 | 11 | 2,170 | 100 | | | | | | | |
| presentation | present | • | | 49 | 28 | 652 | 42 | 1,658 | 36 | 7,375 | 34 | | | | | | | |
| 1 | | | | 54 | 31 | 480 | 31 | 1,474 | 32 | 7,015 | 33 | 2.6 | 2.5 | .07 | 2.6 | 06 | 2.7 | 12 |
| | | | | 38 | 22 | 247 | 16 | 947 | 21 | 4,907 | 23 | 2.0 | 2.3 | .07 | 2.0 | 00 | 2.1 | 12 |
| | | 7 | | 173 | 100 | 1,566 | 100 | 4,593 | 100 | 21,467 | 100 | | | | | | | |
| 2. During the current scl | hool vear, abo | ut how | often have vou done th | e following? | | · | | · | | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| a. Combined ideas from | RIintegrate | 1 | | 5 | 3 | 40 | 3 | 103 | 2 | 529 | 2 | | | | | | | |
| different courses when | | 2 | Sometimes | 45 | 26 | 431 | 28 | 1,270 | 28 | 5,740 | 27 | | | | | | | |
| completing assignments | | 3 | Often | 76 | 44 | 674 | 43 | 1,992 | 43 | 9,160 | 43 | 3.0 | 2.9 | .02 | 2.9 | .01 | 3.0 | 01 |
| | | 4 | Very often | 47 | 27 | 416 | 27 | 1,226 | 27 | 6,018 | 28 | 2.0 | 2.7 | .02 | 2.7 | .01 | 5.0 | .01 |
| | | | Total | 173 | 100 | 1,561 | 100 | 4,591 | 100 | 21,447 | 100 | | | | | | | |
| b. Connected your | RIsocietal | 1 | Never | 29 | 17 | 241 | 15 | 673 | 15 | 3,022 | 14 | | | | | | | |
| learning to societal | | 2 | Sometimes | 75 | 44 | 739 | 47 | 2,112 | 46 | 9,620 | 45 | | | | | | | |
| problems or issues | | 3 | Often | 50 | 29 | 411 | 26 | 1,252 | 27 | 6,095 | 28 | 2.3 | 2.3 | .01 | 2.4 | 04 | 2.4 | 07 |
| | | 4 | Very often | 18 | 10 | 170 | 11 | 544 | 12 | 2,707 | 13 | | | | | | | |
| | | | Total | 172 | 100 | 1,561 | 100 | 4,581 | 100 | 21,444 | 100 | | | | | | | |
| c. Included diverse | RIdiverse | 1 | Never | 65 | 38 | 564 | 36 | 1,582 | 35 | 6,874 | 32 | | | | | | | |
| perspectives (political, | | 2 | Sometimes | 75 | 44 | 676 | 43 | 1,947 | 43 | 9,253 | 43 | | | | | | | |
| religious, racial/ethnic, gender, etc.) in course | | 3 | Often | 23 | 13 | 235 | 15 | 772 | 17 | 3,811 | 18 | 1.8 | 1.9 | 05 | 1.9 | 11 | 2.0 * | 17 |
| discussions or | | 4 | Very often | 8 | 5 | 82 | 5 | 277 | 6 | 1,494 | 7 | | | | | | ∇ | |
| assignments | | | Total | 171 | 100 | 1,557 | 100 | 4,578 | 100 | 21,432 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| Seniors ^a in | | | | | | Frequen | cy D | istribution | S | | | | St | atistical | Comparis | ons ^k | | |
|--|------------------|---------------------|------------------------|--------------|-----|---------------|------|--------------|-----|-----------|-----|------|-----------|------------|----------------|--|-----------|-------------------|
| Aero and Engi | neering | | | | | | | | | NSSE 2016 | 5 & | | | Y | our seniors co | Class NSSE 2016 & Effect size Mean 09 2.6 16 2.7 * ▼ | | |
| | | | | UND | | Plains Public | Plus | Carnegie Cl | ass | 2017 | | UND | Plains Pu | ublic Plus | Carnegie | Class | NSSE 2016 | 8 2017 |
| Item wording | Variable | | n | | | | | | _, | | | | | Effect | | | | Effect |
| or description d. Examined the strengths | name ' RIownview | Values ¹ | Response options Never | Count 17 | 10 | | 10 | Count 410 | 9 | 1,925 | 9 | Mean | Mean | size " | Mean | size | Mean | size ⁿ |
| and weaknesses of | | 2 | Sometimes | 72 | 42 | 630 | 40 | 1,762 | 38 | 8,138 | 38 | | | | | | | |
| your own views on a | | 3 | Often | 63 | 37 | 591 | 38 | 1,775 | 39 | 8,263 | 39 | 2.5 | 2.5 | 01 | 2.6 | 09 | 2.6 | 10 |
| topic or issue | | 4 | Very often | 20 | 12 | 179 | 11 | 630 | 14 | 3,122 | 15 | | | | | | | |
| | | | Total | 172 | 100 | 1,560 | 100 | 4,577 | 100 | 21,448 | 100 | | | | | | | |
| e. Tried to better | RIperspect | 1 | Never | 15 | 9 | 117 | 7 | 295 | 6 | 1,375 | 6 | | | | | | | |
| understand someone | | 2 | Sometimes | 68 | 40 | 589 | 38 | 1,543 | 34 | 7,094 | 33 | | | | | | | |
| else's views by imagining how an issue | | 3 | Often | 60 | 35 | 575 | 37 | 1,831 | 40 | 8,714 | 41 | 2.6 | 2.7 | 06 | 2.7 * | 16 | 2.7 * | 16 |
| looks from their | | 4 | Very often | 29 | 17 | 280 | 18 | 907 | 20 | 4,240 | 20 | | | | ∇ | | ∇ | |
| perspective | | | Total | 172 | 100 | 1,561 | 100 | 4,576 | 100 | 21,423 | 100 | | | | | | | |
| f. Learned something that | RInewview | 1 | Never | 8 | 5 | 49 | 3 | 144 | 3 | 685 | 3 | | | | | | | |
| changed the way you | | 2 | Sometimes | 53 | 31 | 571 | 37 | 1,487 | 32 | 6,909 | 32 | | | | | | | |
| understand an issue or concept | | 3 | Often | 76 | 44 | 664 | 43 | 2,040 | 45 | 9,469 | 44 | 2.8 | 2.7 | .06 | 2.8 | 02 | 2.8 | 03 |
| сонсерг | | 4 | Very often | 34 | 20 | 273 | 18 | 907 | 20 | 4,357 | 20 | | | | | | | |
| | | | Total | 171 | 100 | 1,557 | 100 | 4,578 | 100 | 21,420 | 100 | | | | | | | |
| g. Connected ideas from | RIconnect | 1 | Never | 1 | 1 | 29 | 2 | 69 | 2 | 317 | 1 | | | | | | | |
| your courses to your prior experiences and | | 2 | Sometimes | 36 | 21 | 337 | 22 | 941 | 21 | 4,321 | 20 | | | | | | | |
| knowledge | | 3 | Often | 72 | 42 | 726 | 47 | 2,195 | 48 | 10,171 | 48 | 3.1 | 3.0 | .13 | 3.1 | .11 | 3.1 | .09 |
| | | 4 | Very often | 63 | 37 | 463 | 30 | 1,368 | 30 | 6,595 | 31 | | | | | | | |
| | | | Total | 172 | 100 | 1,555 | 100 | 4,573 | 100 | 21,404 | 100 | | | | | | | |
| 3. During the current sci | hool year, abo | ut how o | often have you done th | e following? | | | | | | | | | | | | | | |
| a. Talked about career | SFcareer | 1 | Never | 45 | 26 | 356 | 23 | 987 | 22 | 4,399 | 21 | | | | | | | |
| plans with a faculty member | | 2 | Sometimes | 73 | 42 | 689 | 44 | 1,960 | 43 | 9,052 | 42 | | | | | | | |
| member | | 3 | Often | 38 | 22 | 351 | 22 | 1,069 | 23 | 4,913 | 23 | 2.1 | 2.2 | 07 | 2.3 | 13 | 2.3 * | 17 |
| | | 4 | Very often | 16 | 9 | 167 | 11 | 565 | 12 | 3,060 | 14 | | | | | | ∇ | |
| | | | Total | 172 | 100 | · · | 100 | 4,581 | 100 | 21,424 | 100 | | | | | | | |
| Worked with a faculty member on activities | SFotherwork | 1 | Never | 80 | 47 | | 38 | 1,740 | 38 | 8,165 | 38 | | | | | | | |
| other than coursework | | 2 | Sometimes | 50 | 29 | | 32 | 1,510 | 33 | 7,081 | 33 | 1.0 | | | | | | |
| (committees, student | | 3 | Often | 27 | 16 | | 19 | 846 | 18 | 3,804 | 18 | 1.9 | 2.0 | 15 | 2.0 | 15 | 2.0 * | 15 |
| groups, etc.) | | 4 | Very often | 15 | 9 | 163 | 10 | 479 | 10 | 2,366 | 11 | | | | | | ∇ | |
| | | | Total | 172 | 100 | 1,562 | 100 | 4,575 | 100 | 21,416 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| Seniors ^a in | ero and Engineering | | | | | Frequen | cy D | istribution | S | | | | Sta | atistical | Comparis | ons ^k | | |
|---|---|--------|-----------------------|--------------|---------|---------------|------|-------------|-----|-----------|-----|------|-----------|------------|---------------|-------------------|-----------|--------|
| Aero and Engi | ero and Engineering | | | | | | | | | NSSE 2016 | 5.8 | | | Y | our seniors c | ompared v | vith | |
| | o wording Variable escription name Values Response option cussed course SFdiscuss 1 Never | | | UND | | Plains Public | Plus | Carnegie Cl | ass | 2017 | , a | UND | Plains Pu | ıblic Plus | Carnegie | e Class | NSSE 2016 | & 2017 |
| Item wording | Variable | | | | | | | | | | | | | Effect | | Effect | | Effect |
| or description | | Values | | Count | % | Count | % | Count | % | Count | % | Mean | Mean | size " | Mean | size ⁿ | Mean | size " |
| c. Discussed course topics, ideas, or | SFdiscuss | 1 | | 46 | 27 | 335 | 21 | 974 | 21 | 4,488 | 21 | | | | | | | |
| concepts with a faculty | | 2 | Sometimes | 79 | 46 | 717 | 46 | 2,054 | 45 | 9,482 | 44 | 0.1 | | | | | | |
| member outside of | | 3 | Often | 37 | 22 | 362 | 23 | 1,095 | 24 | 5,070 | 24 | 2.1 | 2.2 * | 16 | 2.2 * | 18 | 2.2 ** | 20 |
| class | | 4 | Very often | 10 | 6 | 145 | 9 | 449 | 10 | 2,355 | 11 | | ∇ | | ∇ | | ∇ | |
| | | | Total | 172 | 100 | 1,559 | 100 | 4,572 | 100 | 21,395 | 100 | | | | | | | |
| d. Discussed your | SFperform | 1 | Never | 48 | 28 | 414 | 27 | 1,237 | 27 | 5,642 | 26 | | | | | | | |
| academic performance with a faculty member | | 2 | Sometimes | 81 | 47 | 764 | 49 | 2,134 | 47 | 9,885 | 46 | | | | | | | |
| with a faculty member | | 3 | Often | 32 | 19 | 281 | 18 | 875 | 19 | 4,075 | 19 | 2.0 | 2.0 | 01 | 2.1 | 03 | 2.1 | 07 |
| | | 4 | Very often | 11 | 6 | 98 | 6 | 325 | 7 | 1,785 | 8 | | | | | | | |
| | | | Total | 172 | 100 | 1,557 | 100 | 4,571 | 100 | 21,387 | 100 | | | | | | | |
| 4. During the current sch | nool year, how | much l | nas your coursework e | mphasized th | e follo | owing? | | | | | | | | | | | | |
| a. Memorizing course | memorize | 1 | Very little | 11 | 6 | 161 | 10 | 443 | 10 | 2,009 | 9 | | | | | | | |
| material | | 2 | Some | 67 | 39 | 650 | 41 | 1,773 | 39 | 8,448 | 39 | | | | | | | |
| | | 3 | Quite a bit | 72 | 42 | 541 | 34 | 1,680 | 37 | 7,798 | 36 | 2.6 | 2.5 | .11 | 2.6 | .05 | 2.6 | .05 |
| | | 4 | Very much | 22 | 13 | 217 | 14 | 683 | 15 | 3,201 | 15 | | | | | | | |
| | | | Total | 172 | 100 | 1,569 | 100 | 4,579 | 100 | 21,456 | 100 | | | | | | | |
| b. Applying facts, | HOapply | 1 | Very little | 3 | 2 | 28 | 2 | 84 | 2 | 381 | 2 | | | | | | | - |
| theories, or methods to | | 2 | Some | 21 | 12 | 235 | 15 | 570 | 12 | 2,738 | 13 | | | | | | | |
| practical problems or | | 3 | Quite a bit | 65 | 38 | 647 | 41 | 1,890 | 41 | 8,499 | 40 | 3.3 | 3.2 | .12 | 3.3 | .06 | 3.3 | .04 |
| new situations | | 4 | Very much | 83 | 48 | 658 | 42 | 2,032 | 44 | 9,812 | 46 | | | | | | | |
| | | | Total | 172 | 100 | 1,568 | 100 | 4,576 | 100 | 21,430 | 100 | | | | | | | |
| c. Analyzing an idea, | HOanalyze | 1 | Very little | 6 | 3 | 93 | 6 | 202 | 4 | 946 | 4 | | | | | | | |
| experience, or line of | | 2 | Some | 38 | 22 | 365 | 23 | 961 | 21 | 4,326 | 20 | | | | | | | |
| reasoning in depth by | | 3 | Quite a bit | 71 | 41 | 598 | 38 | 1,833 | 40 | 8,502 | 40 | 3.0 | 3.0 | .08 | 3.0 | 01 | 3.1 | 03 |
| examining its parts | | 4 | Very much | 57 | 33 | 506 | 32 | 1,573 | 34 | 7,642 | 36 | | | | | | | |
| | | | Total | 172 | 100 | 1,562 | 100 | 4,569 | 100 | 21,416 | 100 | | | | | | | |
| d. Evaluating a point of | HOevaluate | 1 | Very little | 27 | 16 | 240 | 15 | 679 | 15 | 3,105 | 14 | | | | | | | |
| view, decision, or | | 2 | Some | 60 | 35 | 618 | 40 | 1,663 | 36 | 7,571 | 35 | | | | | | | |
| information source | | 3 | Quite a bit | 59 | 34 | 474 | 30 | 1,459 | 32 | 6,922 | 32 | 2.5 | 2.4 | .05 | 2.5 | 02 | 2.5 | 05 |
| | | 4 | Very much | 26 | 15 | 225 | 14 | 766 | 17 | 3,822 | 18 | | | | | | | |
| | | | Total | 172 | 100 | 1.557 | 100 | 4,567 | 100 | 21,420 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| | | | | | | Frequen | icy D | istribution | S | | | | St | atistical | Compari | sons ^k | | |
|--|-----------------|----------|-------------------------|----------------|--------|---------------|-------|-------------|-----|-----------|-----|------|-----------|-------------------|---------------|-------------------|-----------|-------------------|
| Aero and Engir | neering | | | | | | | | | NSSE 2016 | 5 & | | | Y | our seniors o | ompared v | vith | |
| | | | | UND | | Plains Public | Plus | Carnegie Cl | ass | 2017 | | UND | Plains Pu | ublic Plus | Carnegi | e Class | NSSE 2016 | 6 & 2017 |
| Item wording | Variable | | | | | | | | | | | | | Effect | | Effect | | Effect |
| or description | name ' | Values " | | Count | % | Count | % | Count | % | Count | % | Mean | Mean | size ⁿ | Mean | size " | Mean | size ⁿ |
| e. Forming a new idea or understanding from | HOform | 1 | Very little | 12 | 7 | 128 | 8 | 348 | 8 | 1,538 | 7 | | | | | | | |
| various pieces of | | 2 | Some | 50 | 29 | 515 | 33 | 1,399 | 31 | 6,221 | 29 | 2.0 | | | | | | |
| information | | 3 | Quite a bit | 76 | 44 | 631 | 40 | 1,819 | 40 | 8,703 | 41 | 2.8 | 2.7 | .08 | 2.8 | .00 | 2.8 | 04 |
| | | 4 | Very much | 33 | 19 | 288 | 18 | 1,005 | 22 | 4,959 | 23 | | | | | | | |
| | | | Total | 171 | 100 | 1,562 | 100 | 4,571 | 100 | 21,421 | 100 | | | | | | | |
| 5. During the current sch | nool year, to w | hat exte | ent have your instructo | ors done the f | ollowi | ing? | | | | | | | | | | | | |
| a. Clearly explained | ETgoals | 1 | Very little | 4 | 2 | 36 | 2 | 119 | 3 | 579 | 3 | | | | | | | |
| course goals and | | 2 | Some | 32 | 19 | 338 | 22 | 978 | 21 | 4,481 | 21 | | | | | | | |
| requirements | | 3 | Quite a bit | 84 | 49 | 741 | 47 | 2,198 | 48 | 10,158 | 47 | 3.1 | 3.0 | .06 | 3.0 | .07 | 3.0 | .05 |
| | | 4 | Very much | 52 | 30 | 452 | 29 | 1,292 | 28 | 6,251 | 29 | | | | | | | |
| | | | Total | 172 | 100 | 1,567 | 100 | 4,587 | 100 | 21,469 | 100 | | | | | | | |
| b. Taught course sessions | ETorganize | 1 | Very little | 5 | 3 | 64 | 4 | 163 | 4 | 775 | 4 | | | | | | | |
| in an organized way | | 2 | Some | 36 | 21 | 316 | 20 | 997 | 22 | 4,633 | 22 | | | | | | | |
| | | 3 | Quite a bit | 90 | 52 | 741 | 47 | 2,228 | 49 | 10,147 | 47 | 3.0 | 3.0 | 03 | 3.0 | .00 | 3.0 | 02 |
| | | 4 | Very much | 41 | 24 | 441 | 28 | 1,191 | 26 | 5,894 | 27 | | | | | | | |
| | | | Total | 172 | 100 | 1,562 | 100 | 4,579 | 100 | 21,449 | 100 | | | | | | | |
| c. Used examples or | ETexample | 1 | Very little | 3 | 2 | 68 | 4 | 177 | 4 | 746 | 3 | | | | | | | |
| illustrations to explain | | 2 | Some | 38 | 22 | 297 | 19 | 912 | 20 | 4,147 | 19 | | | | | | | |
| difficult points | | 3 | Quite a bit | 83 | 48 | 685 | 44 | 1,986 | 43 | 9,336 | 44 | 3.0 | 3.0 | 03 | 3.1 | 03 | 3.1 | 06 |
| | | 4 | Very much | 48 | 28 | 511 | 33 | 1,500 | 33 | 7,211 | 34 | | | | | | | |
| | | | Total | 172 | 100 | 1,561 | 100 | 4,575 | 100 | 21,440 | 100 | | | | | | | |
| d. Provided feedback on a | ETdraftfb | 1 | Very little | 35 | 21 | 286 | 18 | 761 | 17 | 3,314 | 15 | | | | | | | |
| draft or work in | | 2 | Some | 70 | 41 | 591 | 38 | 1,712 | 37 | 7,623 | 36 | | | | | | | |
| progress | | 3 | Quite a bit | 38 | 22 | 497 | 32 | 1,442 | 32 | 6,998 | 33 | 2.3 | 2.4 | 04 | 2.4 | 11 | 2.5 * | 17 |
| | | 4 | Very much | 27 | 16 | 187 | 12 | 659 | 14 | 3,496 | 16 | | | | | | ∇ | |
| | | | Total | 170 | 100 | 1,561 | 100 | 4,574 | 100 | 21,431 | 100 | | | | | | | |
| e. Provided prompt and | ETfeedback | 1 | Very little | 21 | 12 | 165 | 11 | 421 | 9 | 2,014 | 9 | | | | | | | |
| detailed feedback on | | 2 | Some | 61 | 35 | 495 | 32 | 1,524 | 33 | 6,951 | 33 | | | | | | | |
| tests or completed | | 3 | Quite a bit | 67 | 39 | 647 | 42 | 1,830 | 40 | 8,548 | 40 | 2.5 | 2.6 | 11 | 2.7 | 14 | 2.7 | 15 |
| assignments | | 4 | Very much | 23 | 13 | 252 | 16 | 787 | 17 | 3,844 | 18 | | | | | | | |
| | | | Total | 172 | 100 | 1,559 | 100 | 4,562 | 100 | 21,357 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| Seniors ^a in | | | | | | Frequer | ncy D | istribution | ıS | | | | Sta | itistical | Comparis | ons ^k | | |
|---|-------------------------------------|---------------------|-------------------------------|---------------|---------|---------------|-------|--------------|--------|------------|--------|------------------|--------------|------------------|----------------|------------------|-----------|------------------|
| Aero and Eng | ineering | | | | | | | | | NSSE 2016 | 5 & | | | Y | our seniors co | mpared v | vith | |
| | | | | UND | | Plains Public | Plus | Carnegie Cl | ass | 2017 | | UND | Plains Pul | blic Plus | Carnegie | Class | NSSE 2016 | 5 & 2017 |
| Item wording or description | Variable name ^I | Values ⁿ | ⁿ Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size " | Mean | Effect size " | Mean | Effect size " |
| 6. During the current | school year, abou | t how o | often have you done th | e following? | | | | | | | | | | | | | | |
| a. Reached conclusions | QRconclude | 1 | Never | 3 | 2 | 34 | 2 | 109 | 2 | 518 | 2 | | | | | | | |
| based on your own | | 2 | Sometimes | 25 | 15 | 344 | 22 | 856 | 19 | 3,980 | 19 | | | | | | | |
| analysis of numerical | | 3 | Often | 59 | 35 | 627 | 40 | 1,926 | 42 | 8,712 | 41 | 3.3 | 3.1 ** | .26 | 3.1 ** | .22 | 3.1 * | .20 |
| information (numbers, graphs, statistics, etc.) | | 4 | Very often | 83 | 49 | 558 | 36 | 1,681 | 37 | 8,185 | 38 | | Δ | | Δ | | Δ | |
| graphs, statistics, etc.) | | | Total | 170 | 100 | 1,563 | 100 | 4,572 | 100 | 21,395 | 100 | | | | | | | |
| b. Used numerical | QRproblem | 1 | Never | 25 | 15 | 285 | 18 | 867 | 19 | 3,714 | 17 | | | | | | | |
| information to examine | | 2 | Sometimes | 47 | 27 | 550 | 35 | 1,505 | 33 | 6,984 | 33 | | | | | | | |
| a real-world problem o | r | 3 | Often | 51 | 30 | 421 | 27 | 1,308 | 29 | 6,025 | 28 | 2.7 | 2.5 ** | .24 | 2.5 ** | .23 | 2.5 * | .17 |
| issue (unemployment, climate change, public | | 4 | Very often | 49 | 28 | 305 | 20 | 890 | 19 | 4,671 | 22 | | Δ | | Δ | | Δ | |
| health, etc.) | | | Total | 172 | 100 | 1,561 | 100 | 4,570 | 100 | 21,394 | 100 | | | | | | | |
| ,, | | | | | | , | | , | | , | | | | | | | | |
| c. Evaluated what others | QRevaluate | 1 | Never | 14 | 8 | 159 | 10 | 463 | 10 | 2,021 | 9 | | | | | | | |
| have concluded from | | 2 | Sometimes | 57 | 34 | 622 | 40 | 1,663 | 36 | 7,517 | 35 | | | | | | | |
| numerical information | | 3 | Often | 63 | 37 | 516 | 33 | 1,607 | 35 | 7,593 | 35 | 2.7 | 2.6 * | .16 | 2.6 | .10 | 2.7 | .06 |
| | | 4 | Very often | 36 | 21 | 266 | 17 | 844 | 18 | 4,295 | 20 | | Δ | | | | | |
| | | | Total | 170 | 100 | 1,563 | 100 | 4,577 | 100 | 21,426 | 100 | | | | | | | |
| 7. During the current | school year, abou | t how 1 | many papers, reports, | or other writ | ing tas | ks of the fol | lowin | g lengths ha | ve you | been assig | ned? (| Include those no | t yet comple | eted.) | | | | |
| a. Up to 5 pages | wrshortnum | 0 | None | 17 | 10 | 148 | 10 | 469 | 10 | 2,026 | 10 | | | | | | | |
| | (Recoded version | 1.5 | 1-2 | 39 | 23 | 402 | 26 | 1,104 | 24 | 4,866 | 23 | | | | | | | |
| | of wrshort created | 4 | 3-5 | 48 | 28 | 416 | 27 | 1,275 | 28 | 5,981 | 28 | | | | | | | |
| | by NSSE. Values | 8 | 6-10 | 41 | 24 | 271 | 18 | 817 | 18 | 4,059 | 19 | 5.7 | 6.2 | 08 | 6.2 | 08 | 6.5 * | 13 |
| | are estimated | 13 | 11-15 | 14 | 8 | 146 | 10 | 383 | 8 | 1,895 | 9 | | | | | | ∇ | |
| | number of papers, reports, etc.) | 18 | 16-20 | 5 | 3 | 64 | 4 | 182 | 4 | 959 | 5 | | | | | | | |
| | reports, etc.) | 23 | More than 20 | 5 | 3 | 86 | 6 | 284 | 6 | 1,424 | 7 | | | | | | | |
| | | | Total | 169 | 100 | 1,533 | 100 | 4,514 | 100 | 21,210 | 100 | | | | | | | |
| b. Between 6 and 10 | wrmednum | 0 | None | 46 | 27 | 449 | 30 | 1,287 | 29 | 5,634 | 27 | | | | | | | - |
| pages | (Recoded version | 1.5 | 1-2 | 59 | 35 | 512 | 34 | 1,475 | 33 | 6,855 | 33 | | | | | | | |
| | of wrmed created | 4 | 3-5 | 38 | 22 | 325 | 21 | 920 | 21 | 4,522 | 21 | | | | | | | |
| | by NSSE. Values | 8 | 6-10 | 16 | 9 | 134 | 9 | 483 | 11 | 2,427 | 12 | 3.0 | 3.2 | 04 | 3.4 | 08 | 3.6 * | 13 |
| | are estimated | 13 | 11-15 | 9 | 5 | 53 | 3 | 174 | 4 | 873 | 4 | | | | | | ∇ | |
| | number of papers, | 18 | 16-20 | 1 | 1 | 29 | 2 | 54 | 1 | 348 | 2 | | | | | | | |
| | reports, etc.) | 23 | More than 20 | 0 | 0 | 20 | 1 | 90 | 2 | 433 | 2 | | | | | | | |
| | | | Total | 169 | 100 | 1,522 | 100 | 4,483 | 100 | 21,092 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| Seniors ^a in | | | | | | Frequenc | cy Di | stribution | S | | | | Sta | atistical (| Comparis | ons ^k | | |
|-------------------------------------|---|----------|-------------------------|---------------|---------|-----------------|-------|-------------|-----|-----------|-----|------|-----------|-------------------|----------------|-------------------|-----------------|-------------------|
| Aero and Eng | gineering | | | | | | | | | NSSE 2016 | i & | | - | Y | our seniors co | mpared v | vith | |
| | | | | UND | F | Plains Public P | lus | Carnegie Cl | ass | 2017 | | UND | Plains Pu | blic Plus | Carnegie | Class | NSSE 2016 | & 2017 |
| Item wording | Variable | | | | | | | | _, | | | | | Effect | | Effect | | Effect |
| or description c. 11 pages or more | name ' wrlongnum | Values** | None | Count 68 | % 40 | Count 655 | 43 | 1,818 | 40 | 8,364 | 40 | Mean | Mean | size ⁿ | Mean | size ⁿ | Mean | size ⁿ |
| e. 11 pages of more | (Recoded version | 1.5 | 1-2 | 63 | 37 | 497 | 33 | 1,450 | 32 | 7,066 | 33 | | | | | | | |
| | of wrlong created | 4 | 3-5 | 21 | 12 | 205 | 13 | 620 | 14 | 2,886 | 14 | | | | | | | |
| | by NSSE. Values | 8 | 6-10 | 13 | 8 | 93 | 6 | 343 | 8 | 1,540 | 7 | 2.2 | 2.3 | 03 | 2.7 | 11 | 2.7 | 11 |
| | are estimated | 13 | 11-15 | 4 | 2 | 37 | 2 | 144 | 3 | 655 | 3 | | 2.0 | .05 | 2., | | 2.7 | |
| | number of papers, reports, etc.) | 18 | 16-20 | 1 | 1 | 22 | 1 | 48 | 1 | 265 | 1 | | | | | | | |
| | reports, etc.) | 23 | More than 20 | 1 | 1 | 16 | 1 | 87 | 2 | 389 | 2 | | | | | | | |
| | | | Total | 171 | 100 | 1,525 | 100 | 4,510 | 100 | 21,165 | 100 | | | | | | | |
| Estimated number of | wrpages | | | | | | | | | | | | | | | | | |
| assigned pages of student writing. | (Continuous variab from wrshort, wrm estimated pages of | ed, and | · · | | | | | | | | | 72.3 | 77.0 | 05 | 84.4 * ▼ | 12 | 87.2 * ▽ | 14 |
| R During the current | school vear abou | t how o | often have you had disc | cussions with | neonle | from the fol | llowi | ng grains? | | | | | | | | | | |
| a. People of a race or | DDrace | 1 | Never | 19 | 11 | 111 | 7 | 269 | 6 | 1,241 | 6 | | | | | | | |
| ethnicity other than | | 2 | Sometimes | 58 | 34 | 479 | 31 | 1,131 | 25 | 4,991 | 23 | | | | | | | |
| your own | | 3 | Often | 45 | 26 | 449 | 29 | 1,320 | 29 | 6,231 | 29 | 2.7 | 2.9 | 15 | 3.0 *** | 32 | 3.1 *** | 35 |
| | | 4 | Very often | 51 | 29 | 526 | 34 | 1,863 | 41 | 8,976 | 42 | | | | ▼ | | ▼ | |
| | | | Total | 173 | 100 | 1,565 | 100 | 4,583 | 100 | 21,439 | 100 | | | | | | | |
| b. People from an | DDeconomic | 1 | Never | 13 | 8 | 70 | 4 | 220 | 5 | 1,026 | 5 | | | | | | | |
| economic background | | 2 | Sometimes | 55 | 32 | 399 | 25 | 1,017 | 22 | 4,803 | 22 | | | | | | | |
| other than your own | | 3 | Often | 52 | 30 | 582 | 37 | 1,611 | 35 | 7,431 | 35 | 2.8 | 3.0 | 17 | 3.1 ** | 25 | 3.1 ** | 25 |
| | | 4 | Very often | 53 | 31 | 514 | 33 | 1,732 | 38 | 8,158 | 38 | | | | ∇ | | ∇ | |
| | | | Total | 173 | 100 | 1,565 | 100 | 4,580 | 100 | 21,418 | 100 | | | | | | | |
| c. People with religious | DDreligion | 1 | Never | 13 | 8 | 80 | 5 | 350 | 8 | 1,394 | 7 | | | | | | | |
| beliefs other than your own | | 2 | Sometimes | 62 | 36 | 441 | 28 | 1,133 | 25 | 5,151 | 24 | | | | | | | |
| OWII | | 3 | Often | 42 | 24 | 481 | 31 | 1,420 | 31 | 6,642 | 31 | 2.8 | 3.0 * | 17 | 3.0 * | 16 | 3.0 ** | 21 |
| | | 4 | Very often | 56 | 32 | 561 | 36 | 1,674 | 37 | 8,210 | 38 | | ∇ | | ∇ | | ∇ | |
| | | | Total | 173 | 100 | 1,563 | 100 | 4,577 | 100 | 21,397 | 100 | | | | | | | |
| d. People with political | DDpolitical | 1 | Never | 14 | 8 | 76 | 5 | 237 | 5 | 1,216 | 6 | | | | | | | |
| views other than your own | | 2 | Sometimes | 53 | 31 | 384 | 25 | 1,142 | 25 | 5,460 | 26 | | | | | | | |
| OWII | | 3 | Often | 48 | 28 | 549 | 35 | 1,516 | 33 | 6,926 | 32 | 2.9 | 3.0 | 16 | 3.0 | 16 | 3.0 | 14 |
| | | 4 | Very often | 58 | 34 | 549 | 35 | 1,676 | 37 | 7,804 | 36 | | | | | | | |
| | | | Total | 173 | 100 | 1,558 | 100 | 4,571 | 100 | 21,406 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| Seniors ^a in | | | | | | Frequer | ıcy D | istribution | ıs | | | | Sta | atistical | Compari | sons ^k | | |
|------------------------------------|-------------------------------|---------------------|------------------------|----------------|-------|---------------|--------|-------------|------|-----------|-----|------|-----------|-----------------------------|---------------|-----------------------------|----------|-----------------------------|
| Aero and Engi | neering | | | | | | | | | NSSE 2016 | 5 & | | | Y | our seniors o | ompared v | vith | |
| | | | | UND | | Plains Public | Plus | Carnegie C | lass | 2017 | | UND | Plains Pu | ıblic Plus | Carnegi | e Class | NSSE 201 | |
| Item wording or description | Variable name ^I | Values ⁿ | Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ |
| 9. During the current so | chool year, abou | ut how o | often have you done th | e following? | | | | | | | | | | | | | | |
| a. Identified key | LSreading | 1 | Never | 8 | 5 | 92 | 6 | 235 | 5 | 1,081 | 5 | | | | | | | |
| information from | | 2 | Sometimes | 49 | 28 | 504 | 32 | 1,316 | 29 | 5,890 | 27 | | | | | | | |
| reading assignments | | 3 | Often | 70 | 41 | 625 | 40 | 1,907 | 42 | 9,007 | 42 | 2.9 | 2.8 | .13 | 2.9 | .03 | 2.9 | .01 |
| | | 4 | Very often | 45 | 26 | 340 | 22 | 1,126 | 25 | 5,456 | 25 | | | | | | | |
| | | | Total | 172 | 100 | 1,561 | 100 | 4,584 | 100 | 21,434 | 100 | | | | | | | |
| b. Reviewed your notes | LSnotes | 1 | Never | 14 | 8 | 136 | 9 | 350 | 8 | 1,739 | 8 | | | | | | | |
| after class | | 2 | Sometimes | 48 | 28 | 592 | 38 | 1,612 | 35 | 7,265 | 34 | | | | | | | |
| | | 3 | Often | 64 | 37 | 511 | 33 | 1,528 | 33 | 7,099 | 33 | 2.8 | 2.7 * | .19 | 2.7 | .10 | 2.7 | .09 |
| | | 4 | Very often | 46 | 27 | 320 | 21 | 1,089 | 24 | 5,318 | 25 | | Δ | | | | | |
| | | | Total | 172 | 100 | 1,559 | 100 | 4,579 | 100 | 21,421 | 100 | | | | | | | |
| c. Summarized what you | LSsummary | 1 | Never | 19 | 11 | 180 | 12 | 457 | 10 | 2,118 | 10 | | | | | | | |
| learned in class or from | | 2 | Sometimes | 47 | 27 | 609 | 39 | 1,645 | 36 | 7,394 | 35 | | | | | | | |
| course materials | | 3 | Often | 70 | 40 | 487 | 31 | 1,592 | 35 | 7,537 | 35 | 2.7 | 2.5 * | .19 | 2.6 | .10 | 2.7 | .07 |
| | | 4 | Very often | 37 | 21 | 271 | 18 | 873 | 19 | 4,313 | 20 | | Δ | | | | | |
| | | | Total | 173 | 100 | 1,547 | 100 | 4,567 | 100 | 21,362 | 100 | | | | | | | |
| 10. During the current s | school year, to | what ex | tent have your courses | s challenged y | ou to | do your bes | t worl | ς? | | | | | | | | | | |
| | challenge | 1 | Not at all | 4 | 2 | 11 | 1 | 40 | 1 | 228 | 1 | | | | | | | |
| | | 2 | | 0 | 0 | 22 | 1 | 70 | 2 | 359 | 2 | | | | | | | |
| | | 3 | | 3 | 2 | 66 | 4 | 170 | 4 | 930 | 4 | | | | | | | |
| | | 4 | | 13 | 8 | 149 | 10 | 433 | 9 | 2,099 | 10 | 5.7 | 5.5 | .13 | 5.6 | .07 | 5.5 | .10 |
| | | 5 | | 49 | 29 | 485 | 31 | 1,298 | 28 | 6,046 | 28 | | | | | | | |
| | | 6 | | 56 | 33 | 476 | 30 | 1,329 | 29 | 6,095 | 28 | | | | | | | |
| | | 7 | Very much | 46 | 27 | 352 | 23 | 1,228 | 27 | 5,632 | 26 | | | | | | | |
| | | | Total | 171 | 100 | 1,561 | 100 | 4,568 | 100 | 21,389 | 100 | | | | | | | |
| 11. Which of the followi | ing have you do | one or d | o you plan to do befor | e you gradua | te?° | | | | | | | | | | | | | |
| a. Participate in an | intern | | Have not decided | 9 | 5 | 60 | 4 | 229 | 5 | 1,114 | 5 | | | | | | | |
| internship, co-op, field | (Means indicate | | Do not plan to do | 33 | 19 | 137 | 9 | 473 | 10 | 2,222 | 10 | | | | | | | |
| experience, student | the percentage | | Plan to do | 37 | 21 | 378 | 24 | 1,260 | 28 | 5,756 | 27 | 54% | 63% * | 18 | 57% | 06 | 58% | 07 |
| teaching, or clinical placement | who responded | | Done or in progress | 94 | 54 | 988 | 63 | 2,618 | 57 | 12,352 | 58 | | ∇ | | | | | |
| pacement | "Done or in progress.") | | Total | 173 | 100 | 1,563 | 100 | 4,580 | 100 | 21,444 | 100 | | , | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| Seniors ^a in | | | | | Frequenc | y Di | stribution | S | | | | Sta | | Comparis | | | |
|---|--------------------------------|--------------------------------------|----------------|--------|-----------------|------|--------------|----------|-------------------|---------|-----------|-----------|-------------------|----------------|-------------------|-----------------|-------------------|
| Aero and Engi | neering | | UND | | Plains Public P | lus | Carnegie Cl | ass | NSSE 2016 2017 | 5 & | UND | Plains Pu | | our seniors co | • | with NSSE 2016 | 5 & 2017 |
| Item wording | Variable | | | | | | | | | | | | Effect | - Curricgio | Effect | | Effect |
| or description | name ' | Values ^m Response options | Count 12 | % 7 | Count 124 | 8 | Count 384 | 8 | 1,953 | 9 | Mean | Mean | size ⁿ | Mean | size ⁿ | Mean | size ⁿ |
| b. Hold a formal leadership role in a | leader | Have not decided | 72 | 42 | | 31 | | | · · · · · · | | | | | | | | |
| student organization or | (Means indicate the percentage | Do not plan to do Plan to do | 18 | 10 | 477 122 | 8 | 1,537 438 | 34 10 | 7,782 2,017 | 36 9 | 41% | 5.40/ ** | 25 | 400/ | 1.5 | 450/ | 00 |
| group | who responded | | 71 | | | 54 | | | | | 41 70 | 54% ** | 25 | 48% | 15 | 45% | 08 |
| | "Done or in | Done or in progress | | 41 | 839 | | 2,220 | 48 | 9,675 | 45 | | ∇ | | | | | |
| | progress.") | Total | 173 | 100 | 1,562 | 100 | 4,579 | 100 | 21,427 | 100 | | | | | | | |
| c. Participate in a learning | learncom | Have not decided | 24 | 14 | 173 | 11 | 550 | 12 | 2,443 | 11 | | | | | | | |
| community or some | (Means indicate | Do not plan to do | 99 | 57 | 849 | 54 | 2,480 | 54 | 11,543 | 54 | | | | | | | |
| other formal program where groups of | the percentage | Plan to do | 8 | 5 | 109 | 7 | 393 | 9 | 1,975 | 9 | 24% | 28% | 07 | 25% | 02 | 25% | 03 |
| students take two or | who responded | Done or in progress | 42 | 24 | 430 | 28 | 1,157 | 25 | 5,452 | 25 | | | | | | | |
| more classes together | "Done or in progress.") | Total | 173 | 100 | 1,561 | 100 | 4,580 | 100 | 21,413 | 100 | | | | | | | |
| d. Participate in a study | abroad | Have not decided | 15 | 9 | 152 | 10 | 431 | 9 | 2,026 | 9 | | | | | | | |
| abroad program | (Means indicate | Do not plan to do | 143 | 83 | 1,156 | 74 | 3,325 | 73 | 15,197 | 71 | | | | | | | |
| | the percentage | Plan to do | 3 | 2 | 81 | 5 | 297 | 6 | 1,462 | 7 | 7% | 11% | 14 | 11% | 16 | 13% * | 20 |
| | who responded | Done or in progress | 12 | 7 | 169 | 11 | 521 | 11 | 2,727 | 13 | | | | | | ∇ | |
| | "Done or in progress.") | Total | 173 | 100 | 1,558 | 100 | 4,574 | 100 | 21,412 | 100 | | | | | | • | |
| e. Work with a faculty | research | Have not decided | 25 | 14 | 232 | 15 | 626 | 14 | 2,944 | 14 | | | | | | | |
| member on a research | (Means indicate | Do not plan to do | 76 | 44 | 612 | 39 | 1,587 | 35 | 7,778 | 36 | | | | | | | |
| project | the percentage | Plan to do | 28 | 16 | 232 | 15 | 839 | 18 | 3,515 | 16 | 25% | 31% | 12 | 33% * | 17 | 33% * | 18 |
| | who responded | Done or in progress | 44 | 25 | 479 | 31 | 1,515 | 33 | 7,146 | 33 | 20 / 0 | 3170 | .12 | ▽ | .17 | ∇ | .10 |
| | "Done or in progress.") | Total | 173 | 100 | 1,555 | 100 | 4,567 | 100 | 21,383 | 100 | | | | * | | • | |
| f. Complete a culminating | capstone | Have not decided | 6 | 3 | 81 | 5 | 204 | 4 | 978 | 5 | | | | | | | |
| senior experience | (Means indicate | Do not plan to do | 10 | 6 | 116 | 7 | 249 | 5 | 1,484 | 7 | | | | | | | |
| (capstone course, senior project or thesis, | the percentage | Plan to do | 77 | 45 | 574 | 37 | 1,561 | 34 | 6,969 | 33 | 46% | 51% | 09 | 56% * | 20 | 56% * | 19 |
| comprehensive exam, | who responded | Done or in progress | 80 | 46 | 793 | 51 | 2,561 | 56 | 11,987 | 56 | | | | ∇ | | ∇ | |
| portfolio, etc.) | "Done or in progress.") | Total | 173 | 100 | 1,564 | 100 | 4,575 | 100 | 21,418 | 100 | | | | | | | |
| 12. About how many of | your courses at | t this institution have inclu | ded a communit | y-bas | ed project (ser | vice | -learning)? | | | | | | | | | | |
| | servcourse | 1 None | 109 | 63 | 881 | 57 | 2,402 | 53 | 11,410 | 53 | | | | | | | |
| | | 2 Some | 58 | 34 | 618 | 40 | 1,900 | 42 | 8,573 | 40 | | | | | | | |
| | | 3 Most | 6 | 3 | 51 | 3 | 217 | 5 | 1,112 | 5 | 1.4 | 1.5 | 13 | 1.5 ** | 22 | 1.5 ** | 21 |
| | | 4 All | 0 | 0 | 9 | 1 | 50 | 1 | 264 | 1 | | | | ∇ | | ∇ | |
| | | Total | 173 | 100 | 1,559 | 100 | 4,569 | 100 | 21,359 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| Seniors ^a in | | | | | | Freque | ncy D | istribution | ıs | | | | St | atistical | Compari | sons ^k | | |
|-----------------------------|-------------------------------|----------|-------------------------------|----------------|--------|---------------|---------|-------------|---------|----------------|----------|------|--------------|-----------------------------|---------------|-------------------|----------|-----------------------------|
| Aero and Eng | ro and Engineering | | | | | | | | | NSSE 2016 | 5 & | | | Y | our seniors o | ompared v | with | |
| | | | | UND | | Plains Public | Plus | Carnegie C | lass | 2017 | | UND | Plains Pu | ublic Plus | Carnegi | e Class | NSSE 201 | 6 & 2017 |
| Item wording or description | Variable name ^l | Values ' | ^m Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | Mean | Effect size " | Mean | Effect size ⁿ |
| 13. Indicate the quality | of your intera | ctions w | ith the following peopl | e at your inst | itutio | n. | | | | | | | | | | | | |
| a. Students | QIstudent | 1 | Poor | 2 | 1 | 10 | 1 | 47 | 1 | 224 | 1 | | | | | | | |
| | | 2 | | 5 | 3 | 16 | 1 | 60 | 1 | 295 | 1 | | | | | | | |
| | | 3 | | 10 | 6 | 48 | 3 | 188 | 4 | 810 | 4 | | | | | | | |
| | | 4 | | 17 | 10 | 134 | 9 | 399 | 9 | 1,961 | 9 | | | | | | | |
| | | 5 | | 40 | 23 | 391 | 25 | 1,126 | 25 | 5,171 | 24 | 5.4 | 5.7 * | 22 | 5.6 | 16 | 5.7 | 16 |
| | | 6 | | 44 | 25 | 496 | 32 | 1,400 | 31 | 6,475 | 30 | | ∇ | | | | | |
| | | 7 | Excellent | 44 | 25 | 464 | 30 | 1,351 | 29 | 6,410 | 30 | | | | | | | |
| | | _ | Not applicable | 11 | 6 | 5 | 0 | 19 | 0 | 111 | 1 | | | | | | | |
| | | | Total | 173 | 100 | 1,564 | 100 | 4,590 | 100 | 21,457 | 100 | | | | | | | |
| b. Academic advisors | QIadvisor | 1 | Poor | 14 | 8 | 91 | 6 | 276 | 6 | 1,207 | 6 | | | | | | | |
| | | 2 | | 11 | 6 | 86 | 6 | 306 | 7 | 1,285 | 6 | | | | | | | |
| | | 3 | | 19 | 11 | 137 | 9 | 443 | 10 | 1,894 | 9 | | | | | | | |
| | | 4 | | 27 | 16 | 207 | 13 | 662 | 14 | 2,989 | 14 | 4.77 | | | | | | |
| | | 5 | | 35 | 20 | 295 | 19 | 921 | 20 | 4,198 | 20 | 4.7 | 5.0 * | 19 | 4.9 | 10 | 5.0 * | 16 |
| | | 6 | | 34 | 20 | 333 | 21 | 851 | 19 | 4,141 | 19 | | ∇ | | | | ∇ | |
| | | 7 | Excellent | 33 | 19 | 409 | 26 | 1,080 | 24 | 5,447 | 25 | | | | | | | |
| | | _ | Not applicable | 0 | 0 | 5 | 0 | 41 | 1 | 277 | 1 | | | | | | | |
| F 1 | OTC 1 | | Total | 173 | 100 | 1,563 | 100 | 4,580 | 100 | 21,438 | 100 | | | | | | | |
| c. Faculty | QIfaculty | 1 | Poor | 4 | 2 | 34 | 2 | 91 | 2 | 440 | 2 | | | | | | | |
| | | 2 | | 10 13 | 6 8 | 51 100 | 3 | 158 286 | 3 | 689 | 3 | | | | | | | |
| | | 3 | | 28 | 16 | 205 | 6 13 | 667 | 6 15 | 1,312 3,044 | 6 | | | | | | | |
| | | 5 | | 28 48 | 28 | 400 | 26 | 1,193 | 26 | 5,561 | 14 26 | 5.0 | 5.2 * | 19 | 5.2 * | 17 | 5.2 * | 20 |
| | | 5 | | 46 | 26 | 467 | 30 | 1,193 | 28 | 5,854 | 27 | 5.0 | 5.2 * | 19 | 5.2 ** ▼ | 1/ | 5.2 * | 20 |
| | | 7 | Excellent | 24 | 14 | 298 | 19 | 862 | 19 | 4,373 | 20 | | V | | ٧ | | ٧ | |
| | | _ | Not applicable | 0 | 0 | 4 | 0 | 16 | 0 | 107 | 1 | | | | | | | |
| | | | Total | 172 | 100 | 1,559 | 100 | 4,567 | 100 | 21,380 | 100 | | | | | | | |
| | | | 10111 | 1/2 | 100 | 1,339 | 100 | 4,507 | 100 | 21,360 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| Seniors ^a in | | | | | | Frequency | / Distr | ribution | S | | | | Sta | atistical | Comparis | ons ^k | | |
|--------------------------------|-------------------------------|---------------------|-------------------------------|-------|-----|-------------------|---------|------------|-----|-----------|-----|-------|-----------|-----------------------------|---------------|-----------------------------|-----------|------------------|
| Aero and Engi | neering | | | | | | | | | NSSE 2016 | 5 & | | | Y | our seniors c | ompared v | with | |
| | | | | UND | | Plains Public Plu | us Ca | arnegie Cl | ass | 2017 | | UND | Plains Pu | blic Plus | Carnegie | Class | NSSE 2016 | |
| Item wording or description | Variable name ^I | Values ⁿ | ^a Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size " |
| d. Student services staff | QIstaff | 1 | Poor | 9 | 5 | 60 | 4 | 256 | 6 | 1,085 | 5 | WEUII | ivicuii | 3126 | Wearr | 3120 | Weum | 3126 |
| (career services, | | 2 | | 9 | 5 | 69 | 4 | 251 | 5 | 1,079 | 5 | | | | | | | |
| student activities, | | 3 | | 11 | 6 | 126 | 8 | 384 | 8 | 1,749 | 8 | | | | | | | |
| housing, etc.) | | 4 | | 22 | 13 | 264 | 17 | 741 | 16 | 3,437 | 16 | | | | | | | |
| | | 5 | | 37 | 22 | 303 | 19 | 963 | 21 | 4,382 | 20 | 4.8 | 4.9 | 09 | 4.7 | .03 | 4.8 | .00 |
| | | 6 | | 28 | 16 | 332 | 21 | 812 | 18 | 3,782 | 18 | | | | | | | |
| | | 7 | Excellent | 23 | 13 | 255 | 16 | 644 | 14 | 3,086 | 14 | | | | | | | |
| | | _ | Not applicable | 33 | 19 | 155 | 10 | 532 | 12 | 2,797 | 13 | | | | | | | |
| | | | Total | 172 | 100 | 1,564 1 | 00 | 4,583 | 100 | 21,397 | 100 | | | | | | | |
| e. Other administrative | QIadmin | 1 | Poor | 15 | 9 | 61 | 4 | 277 | 6 | 1,222 | 6 | | | | | | | |
| staff and offices | | 2 | | 13 | 8 | 102 | 7 | 275 | 6 | 1,251 | 6 | | | | | | | |
| (registrar, financial aid, | | 3 | | 16 | 9 | 127 | 8 | 450 | 10 | 1,907 | 9 | | | | | | | |
| etc.) | | 4 | | 20 | 12 | 244 | 16 | 751 | 16 | 3,663 | 17 | | | | | | | |
| | | 5 | | 37 | 21 | 364 | 23 | 1,045 | 23 | 4,789 | 22 | 4.6 | 4.9 | 14 | 4.7 | 03 | 4.7 | 05 |
| | | 6 | | 31 | 18 | 336 | 21 | 878 | 19 | 3,982 | 19 | | | | | | | |
| | | 7 | Excellent | 30 | 17 | 248 | 16 | 660 | 14 | 3,156 | 15 | | | | | | | |
| | | _ | Not applicable | 11 | 6 | 81 | 5 | 248 | 5 | 1,467 | 7 | | | | | | | |
| | | | Total | 173 | 100 | 1,563 | 00 | 4,584 | 100 | 21,437 | 100 | | | | | | | |
| 14. How much does your | r institution en | nphasize | the following? | | | | | | | | | | | | | | | |
| a. Spending significant | empstudy | 1 | Very little | 4 | 2 | 20 | 1 | 67 | 1 | 325 | 2 | | | | | | | |
| amounts of time | | 2 | Some | 26 | 15 | 207 | 13 | 537 | 12 | 2,768 | 13 | | | | | | | |
| studying and on | | 3 | Quite a bit | 83 | 48 | 678 | 43 | 1,852 | 40 | 9,064 | 42 | 3.1 | 3.3 * | 16 | 3.3 ** | 23 | 3.3 * | 17 |
| academic work | | 4 | Very much | 59 | 34 | 660 | 42 | 2,120 | 46 | 9,267 | 43 | | ∇ | | ∇ | | ∇ | |
| | | | Total | 172 | 100 | 1,565 1 | 00 | 4,576 | 100 | 21,424 | 100 | | | | | | | |
| b. Providing support to | SEacademic | 1 | Very little | 11 | 6 | 77 | 5 | 240 | 5 | 1,087 | 5 | | | | | | | |
| help students succeed | | 2 | Some | 54 | 31 | 387 | 25 | 1,198 | 26 | 5,453 | 26 | | | | | | | |
| academically | | 3 | Quite a bit | 83 | 48 | 681 | 44 | 2,026 | 44 | 9,516 | 45 | 2.7 | 2.9 *** | 27 | 2.9 ** | 21 | 2.9 ** | 23 |
| | | 4 | Very much | 24 | 14 | 417 | 27 | 1,104 | 24 | 5,317 | 25 | | ∇ | | ∇ | | ∇ | |
| | | | Total | 172 | 100 | 1,562 1 | 00 | 4,568 | 100 | 21,373 | 100 | | | | | | | |
| c. Using learning support | SElearnsup | 1 | Very little | 28 | 16 | 137 | 9 | 440 | 10 | 2,194 | 10 | | | | | | | |
| services (tutoring | | 2 | Some | 52 | 31 | 412 | 26 | 1,329 | 29 | 6,159 | 29 | | | | | | | |
| services, writing | | 3 | Quite a bit | 68 | 40 | 594 | 38 | 1,727 | 38 | 8,114 | 38 | 2.5 | 2.8 *** | 36 | 2.8 *** | 28 | 2.7 *** | 26 |
| center, etc.) | | 4 | Very much | 22 | 13 | 418 | 27 | 1,068 | 23 | 4,933 | 23 | | ▼ | | ∇ | | ∇ | |
| | | | Total | 170 | 100 | 1,561 1 | 00 | 4,564 | 100 | 21,400 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| Seniors ^a in | | | | | | Frequen | cy Di | istribution | S | | | | Sta | atistical | Comparis | ons ^k | | |
|--|--------------------------------|---------------------|-------------------------------|-------|-----|-----------------|-------|-------------|-----|-----------|-----|------|-----------|-----------------------------|----------------|-----------------------------|-----------|------------------|
| Aero and Engi | neering | | | | | | | | | | | | | Υ | our seniors co | mpared v | vith | |
| 1010 01101 21181 | m wording Variable | | | | | | | | | NSSE 2016 | 5 & | LIND | | | | | | |
| | | | | UND | | Plains Public F | Plus | Carnegie Cl | ass | 2017 | | UND | Plains Pu | | Carnegie | | NSSE 2016 | & 2017 Effect |
| Item wording or description | name ^l | Values ^r | ⁿ Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | size " |
| d. Encouraging contact | SEdiverse | 1 | Very little | 46 | 27 | 316 | 20 | 947 | 21 | 3,874 | 18 | | | | | | | |
| among students from | | 2 | Some | 66 | 38 | 586 | 38 | 1,590 | 35 | 7,181 | 34 | | | | | | | |
| different backgrounds (social, racial/ethnic, | | 3 | Quite a bit | 43 | 25 | 445 | 29 | 1,319 | 29 | 6,557 | 31 | 2.2 | 2.4 * | 18 | 2.4 ** | 22 | 2.5 *** | 30 |
| religious, etc.) | | 4 | Very much | 17 | 10 | 211 | 14 | 706 | 15 | 3,774 | 18 | | ∇ | | ∇ | | ▼ | |
| | oviding opportunities SEsocial | | Total | 172 | 100 | 1,558 | 100 | 4,562 | 100 | 21,386 | 100 | | | | | | | |
| e. Providing opportunities | | 1 | Very little | 20 | 12 | 127 | 8 | 441 | 10 | 1,987 | 9 | | | | | | | |
| to be involved socially | | 2 | Some | 64 | 37 | 432 | 28 | 1,331 | 29 | 6,109 | 29 | | | | | | | |
| | | 3 | Quite a bit | 57 | 33 | 675 | 43 | 1,814 | 40 | 8,605 | 40 | 2.6 | 2.8 ** | 22 | 2.7 * | 17 | 2.7 * | 19 |
| | | 4 | Very much | 31 | 18 | 330 | 21 | 982 | 21 | 4,694 | 22 | | ∇ | | ∇ | | ∇ | |
| | | | Total | 172 | 100 | 1,564 | 100 | 4,568 | 100 | 21,395 | 100 | | | | | | | |
| f. Providing support for | SEwellness | 1 | Very little | 23 | 14 | 150 | 10 | 531 | 12 | 2,539 | 12 | | | | | | | |
| your overall well-being | | 2 | Some | 53 | 31 | 462 | 30 | 1,338 | 29 | 6,031 | 28 | | | | | | | |
| (recreation, health care, counseling, etc.) | | 3 | Quite a bit | 66 | 39 | 616 | 39 | 1,803 | 39 | 8,069 | 38 | 2.6 | 2.7 * | 17 | 2.7 | 11 | 2.7 | 14 |
| counseinig, etc.) | | 4 | Very much | 27 | 16 | 337 | 22 | 896 | 20 | 4,749 | 22 | | ∇ | | | | | |
| | | | Total | 169 | 100 | 1,565 | 100 | 4,568 | 100 | 21,388 | 100 | | | | | | | |
| g. Helping you manage | SEnonacad | 1 | Very little | 66 | 38 | 556 | 36 | 1,721 | 38 | 7,474 | 35 | | | | | | | |
| your non-academic | | 2 | Some | 67 | 39 | 600 | 38 | 1,638 | 36 | 7,828 | 37 | | | | | | | |
| responsibilities (work, family, etc.) | | 3 | Quite a bit | 23 | 13 | 298 | 19 | 875 | 19 | 4,295 | 20 | 1.9 | 2.0 | 04 | 2.0 | 03 | 2.0 | 09 |
| ranniy, etc.) | | 4 | Very much | 16 | 9 | 110 | 7 | 335 | 7 | 1,776 | 8 | | | | | | | |
| | | | Total | 172 | 100 | 1,564 | 100 | 4,569 | 100 | 21,373 | 100 | | | | | | | |
| h. Attending campus | SEactivities | 1 | Very little | 28 | 16 | 226 | 14 | 677 | 15 | 3,218 | 15 | | | | | | | |
| activities and events | | 2 | Some | 61 | 36 | 524 | 34 | 1,647 | 36 | 6,977 | 33 | | | | | | | |
| (performing arts, athletic events, etc.) | | 3 | Quite a bit | 64 | 37 | 575 | 37 | 1,523 | 33 | 7,477 | 35 | 2.4 | 2.5 | 11 | 2.5 | 09 | 2.5 | 13 |
| auneue events, etc.) | | 4 | Very much | 18 | 11 | 236 | 15 | 722 | 16 | 3,718 | 17 | | | | | | | |
| | | | Total | 171 | 100 | 1,561 | 100 | 4,569 | 100 | 21,390 | 100 | | | | | | | |
| i. Attending events that | SEevents | 1 | Very little | 52 | 30 | 412 | 27 | 1,204 | 26 | 5,062 | 24 | | | | | | | |
| address important | | 2 | Some | 71 | 42 | 651 | 42 | 1,869 | 41 | 8,494 | 40 | | | | | | | |
| social, economic, or political issues | | 3 | Quite a bit | 32 | 19 | 377 | 24 | 1,086 | 24 | 5,550 | 26 | 2.1 | 2.1 | 06 | 2.1 | 08 | 2.2 * | 18 |
| ponticai issues | | 4 | Very much | 16 | 9 | 114 | 7 | 392 | 9 | 2,250 | 11 | | | | | | ∇ | |
| | | | Total | 171 | 100 | 1,554 | 100 | 4,551 | 100 | 21,356 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| Seniors ^a in | | | | | Frequer | ncy D | istributior | ıs | | | | Sta | atistical | Comparis | ons ^k | | | |
|---|-----------------------------------|----------|------------------|-------|---------|---------------|-------------|------------|------|-----------|-----|------|-----------|-----------------------------|------------------|-----------------------------|-----------|-----------------------------|
| Aero and Eng | About how many hours do you spend | | | | | | | | | NSSE 2016 | 6 & | | | Y | our seniors co | ompared v | vith | |
| | | | | UND | 1 | Plains Public | Plus | Carnegie C | lass | 2017 | | UND | Plains Pu | blic Plus | Carnegie | Class | NSSE 2016 | & 2017 |
| • | | Values " | Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | Effect size ⁿ | Mean | Effect size ⁿ | Mean | Effect size ⁿ |
| | | | | | | | ,- | | | | | | | | | | | |
| a. Preparing for class | tmprephrs | 0 | | 0 | 0 | 2 | 0 | 17 | 0 | 111 | 1 | | | | | | | |
| (studying, reading, | (Recoded version | 3 | 1-5 hrs | 13 | 8 | 93 | 6 | 354 | 8 | 1,575 | 7 | | | | | | | |
| writing, doing | of tmprep created | 8 | 6-10 hrs | 24 | 14 | 207 | 13 | 707 | 15 | 3,261 | 15 | | | | | | | |
| homework or lab work, analyzing data, | by NSSE. Values | 13 | 11-15 hrs | 37 | 22 | 295 | 19 | 822 | 18 | 3,789 | 18 | | | | | | | |
| rehearsing, and other | are estimated | 18 | 16-20 hrs | 39 | 23 | 344 | 22 | 898 | 20 | 4,144 | 19 | 18.0 | 18.9 | 10 | 18.4 | 04 | 18.5 | 06 |
| academic activities) | number of hours | 23 | 21-25 hrs | 20 | 12 | 231 | 15 | 605 | 13 | 3,002 | 14 | | | | | | | |
| , | per week.) | 28 | 26-30 hrs | 14 | 8 | 134 | 9 | 416 | 9 | 1,927 | 9 | | | | | | | |
| | | 33 | More than 30 hrs | 25 | 15 | 259 | 17 | 758 | 17 | 3,630 | 17 | | | | | | | |
| | | | Total | 172 | 100 | 1,565 | 100 | 4,577 | 100 | 21,439 | 100 | | | | | | | |
| b. Participating in co- | tmcocurrhrs | 0 | 0 hrs | 74 | 43 | 346 | 22 | 1,311 | 29 | 6,657 | 31 | | | | | | | |
| curricular activities | (Recoded version | 3 | 1-5 hrs | 54 | 32 | 534 | 34 | 1,517 | 33 | 6,954 | 32 | | | | | | | |
| (organizations, campus | of tmcocurr | 8 | 6-10 hrs | 24 | 14 | 322 | 21 | 822 | 18 | 3,555 | 17 | | | | | | | |
| publications, student government, fraternity | created by NSSE. | 13 | 11-15 hrs | 8 | 5 | 164 | 11 | 412 | 9 | 1,927 | 9 | | | | | | | |
| or sorority, | Values are | 18 | 16-20 hrs | 6 | 4 | 86 | 6 | 228 | 5 | 1,114 | 5 | 4.1 | 7.0 *** | 39 | 6.1 *** | 28 | 5.9 *** | 26 |
| intercollegiate or | estimated number | 23 | 21-25 hrs | 3 | 2 | 51 | 3 | 135 | 3 | 589 | 3 | | ▼ | | ∇ | | ∇ | |
| intramural sports, etc.) | of hours per week.) | 28 | 26-30 hrs | 1 | 1 | 16 | 1 | 65 | 1 | 239 | 1 | | | | | | | |
| | week.) | 33 | More than 30 hrs | 1 | 1 | 42 | 3 | 73 | 2 | 363 | 2 | | | | | | | |
| | | | Total | 171 | 100 | 1,561 | 100 | 4,563 | 100 | 21,398 | 100 | | | | | | | |
| c. Working for pay | tmworkonhrs | 0 | 0 hrs | 133 | 78 | 969 | 62 | 2,961 | 65 | 14,229 | 67 | | | | | | | |
| on campus | (Recoded version | 3 | 1-5 hrs | 5 | 3 | 99 | 6 | 274 | 6 | 1,353 | 6 | | | | | | | |
| | of tmworkon | 8 | 6-10 hrs | 14 | 8 | 201 | 13 | 523 | 11 | 2,227 | 10 | | | | | | | |
| | created by NSSE. | 13 | 11-15 hrs | 9 | 5 | 133 | 9 | 338 | 7 | 1,577 | 7 | | | | | | | |
| | Values are | 18 | 16-20 hrs | 5 | 3 | 115 | 7 | 354 | 8 | 1,365 | 6 | 2.7 | 4.4 *** | 25 | 4.1 ** | 21 | 3.9 ** | 18 |
| | estimated number | 23 | 21-25 hrs | 3 | 2 | 28 | 2 | 66 | 1 | 362 | 2 | | ∇ | | ∇ | | ∇ | |
| | of hours per week.) | 28 | 26-30 hrs | 2 | 1 | 10 | 1 | 27 | 1 | 116 | 1 | | | | | | | |
| | week.j | 33 | More than 30 hrs | 0 | 0 | 7 | 0 | 22 | 0 | 162 | 1 | | | | | | | |
| | | | Total | 171 | 100 | 1,562 | 100 | 4,565 | 100 | 21,391 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| Seniors ^a in | | | | | | Frequer | icy D | istribution | s | | | | Sta | tistical(| Comparisc | ns ^k | | |
|---|----------------------------------|---------|--------------------------|----------|---------|---------------|-------|-------------|-----|-----------|-----|------|------------|-------------------|-----------------|-----------------|-----------|-------------------|
| Aero and Eng | ineering | | | | | | | | | NSSE 2016 | 5 & | | | Y | our seniors cor | npared v | vith | |
| | | | | UND | | Plains Public | Plus | Carnegie Cl | ass | 2017 | | UND | Plains Pub | lic Plus | Carnegie | Class | NSSE 2016 | & 2017 |
| Item wording | Variable | _ | _ | | | | | | | | | | | Effect | | Effect | | Effect |
| or description d. Working for pay | name ' tmworkoffhrs | Values' | n Response options O hrs | Count 73 | % 42 | Count 984 | 63 | 2,745 | 60 | 12,350 | 58 | Mean | Mean | size ⁿ | Mean | size " | Mean | size ⁿ |
| off campus | | 3 | 1-5 hrs | 2 | 1 | 79 | 5 | 249 | 5 | 971 | 5 | | | | | | | |
| • | (Recoded version of tmworkoff | 8 | 6-10 hrs | 8 | 5 | 83 | 5 | 266 | 6 | 1,237 | 6 | | | | | | | |
| | created by NSSE. | 13 | 11-15 hrs | 10 | 6 | 108 | 7 | 266 | 6 | 1,335 | 6 | | | | | | | |
| | Values are | 18 | 16-20 hrs | 15 | 9 | 89 | 6 | 345 | 8 | 1,690 | 8 | 14.4 | 6.4 *** | .75 | 7.2 *** | .65 | 8.0 *** | .55 |
| | estimated number | | 21-25 hrs | 9 | 5 | 82 | 5 | 219 | 5 | 1,136 | 5 | | A . | | <u> </u> | | <u> </u> | |
| | of hours per | 28 | 26-30 hrs | 4 | 2 | 33 | 2 | 132 | 3 | 674 | 3 | | | | _ | | _ | |
| | week.) | 33 | More than 30 hrs | 51 | 30 | 96 | 6 | 348 | 8 | 1,999 | 9 | | | | | | | |
| | | | Total | 172 | 100 | 1,554 | 100 | 4,570 | 100 | 21,392 | 100 | | | | | | | |
| Estimated number of | tmworkhrs | | | | | | | | | | | | | | | | | |
| hours working for pay | (Continuous | | | | | | | | | | | | | | | | | |
| | variable created | | | | | | | | | | | 16.9 | 10.7 *** | .55 | 11.2 *** | .48 | 11.9 *** | .41 |
| | by NSSE) | | | | | | | | | | | | A | | A | | A | |
| e. Doing community | tmservicehrs | 0 | 0 hrs | 102 | 59 | 928 | 59 | 2,584 | 57 | 12,878 | 60 | | | | | | | |
| service or volunteer | | 3 | 1-5 hrs | 53 | 31 | 513 | 33 | 1,537 | 34 | 6,396 | 30 | | | | | | | |
| work | (Recoded version of tmservice | 8 | 6-10 hrs | 10 | 6 | 72 | 5 | 232 | 5 | 1,067 | 5 | | | | | | | |
| | created by NSSE. | 13 | 11-15 hrs | 5 | 3 | 21 | 1 | 101 | 2 | 490 | 2 | | | | | | | |
| | Values are | 18 | 16-20 hrs | 0 | 0 | 8 | 1 | 56 | 1 | 257 | 1 | 2.1 | 1.9 | .04 | 2.2 | 04 | 2.2 | 02 |
| | estimated number | 23 | 21-25 hrs | 1 | 1 | 11 | 1 | 30 | 1 | 157 | 1 | | | | | | | |
| | of hours per week.) | 28 | 26-30 hrs | 0 | 0 | 1 | 0 | 9 | 0 | 47 | 0 | | | | | | | |
| | week.) | 33 | More than 30 hrs | 1 | 1 | 6 | 0 | 15 | 0 | 83 | 0 | | | | | | | |
| | | | Total | 172 | 100 | 1,560 | 100 | 4,564 | 100 | 21,375 | 100 | | | | | | | |
| f. Relaxing and | tmrelaxhrs | 0 | 0 hrs | 4 | 2 | 32 | 2 | 121 | 3 | 648 | 3 | | | | | | | |
| socializing (time with | (Recoded version | 3 | 1-5 hrs | 46 | 27 | 306 | 20 | 1,095 | 24 | 5,139 | 24 | | | | | | | |
| friends, video games, | of tmrelax created | 8 | 6-10 hrs | 53 | 31 | 458 | 29 | 1,340 | 29 | 6,210 | 29 | | | | | | | |
| TV or videos, keeping up with friends online, | by NSSE. Values | 13 | 11-15 hrs | 35 | 20 | 317 | 20 | 881 | 19 | 4,097 | 19 | | | | | | | |
| etc.) | are estimated | 18 | 16-20 hrs | 20 | 12 | 226 | 15 | 582 | 13 | 2,695 | 13 | 10.2 | 12.0 ** | 23 | 11.2 | 13 | 11.2 | 13 |
| , | number of hours per week.) | 23 | 21-25 hrs | 8 | 5 | 97 | 6 | 219 | 5 | 1,083 | 5 | | ∇ | | | | | |
| | per week.) | 28 | 26-30 hrs | 2 | 1 | 40 | 3 | 98 | 2 | 485 | 2 | | | | | | | |
| | | 33 | More than 30 hrs | 4 | 2 | 78 | 5 | 229 | 5 | 1,039 | 5 | | | | | | | |
| | | | Total | 172 | 100 | 1,554 | 100 | 4,565 | 100 | 21,396 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| Seniors ^a in | | | | | | Freque | ncy D | istribution | ıs | | | | Sta | itistical | Comparis | ons ^k | | |
|--------------------------|--|---------------------|-----------------------|-------|-----|----------------|-------|-------------|------|-------------------|-----|------|------------|-------------------|----------------|------------------|-----------|--------|
| Aero and Eng | ineering | | | | | | | | | NGGE 2016 | | | | Υ | our seniors co | mpared v | vith | |
| J | O | | | UND | | Plains Public | Dluc | Carnagia | lace | NSSE 2016 2017 | 8 | UND | Plains Pu | blic Dluc | Carnagia | Class | NCCE 2016 | 0 2017 |
| Item wording | Variable | | | UND | | Pidiris Public | Pius | Carriegie C | ldSS | 2017 | | OND | Pidilis Pu | Effect | Carnegie | Effect | NSSE 2016 | & ZU17 |
| or description | name ¹ | Values ⁿ | Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | size ⁿ | Mean | size " | Mean | size " |
| g. Providing care for | tmcarehrs | 0 | 0 hrs | 119 | 69 | 1,281 | 82 | 3,466 | 76 | 16,126 | 76 | | | | | | | |
| dependents (children, | (Recoded version | 3 | 1-5 hrs | 11 | 6 | 107 | 7 | 412 | 9 | 1,872 | 9 | | | | | | | |
| parents, etc.) | of tmcare created | 8 | 6-10 hrs | 4 | 2 | 45 | 3 | 159 | 3 | 868 | 4 | | | | | | | |
| | by NSSE. Values | 13 | 11-15 hrs | 2 | 1 | 27 | 2 | 126 | 3 | 591 | 3 | | | | | | | |
| | are estimated | 18 | 16-20 hrs | 10 | 6 | 28 | 2 | 103 | 2 | 489 | 2 | 6.4 | 2.3 *** | .56 | 3.2 *** | .40 | 3.4 *** | .37 |
| | number of hours | 23 | 21-25 hrs | 1 | 1 | 25 | 2 | 54 | 1 | 261 | 1 | | A | | | | | |
| | per week.) | 28 | 26-30 hrs | 2 | 1 | 4 | 0 | 45 | 1 | 157 | 1 | | | | | | | |
| | | 33 | More than 30 hrs | 23 | 13 | 42 | 3 | 184 | 4 | 990 | 5 | | | | | | | |
| | | | Total | 172 | 100 | 1,559 | 100 | 4,549 | 100 | 21,354 | 100 | | | | | | | |
| h. Commuting to campus | tmcommutehrs | 0 | 0 hrs | 70 | 41 | 144 | 9 | 610 | 13 | 3,564 | 17 | | | | | | | |
| (driving, walking, etc.) | (Recoded version | 3 | 1-5 hrs | 92 | 53 | 1,135 | 73 | 2,748 | 60 | 11,753 | 55 | | | | | | | |
| | of tmcommute | 8 | 6-10 hrs | 8 | 5 | 190 | 12 | 802 | 18 | 3,845 | 18 | | | | | | | |
| | created by NSSE. | 13 | 11-15 hrs | 2 | 1 | 48 | 3 | 228 | 5 | 1,277 | 6 | | | | | | | |
| | Values are | 18 | 16-20 hrs | 0 | 0 | 19 | 1 | 85 | 2 | 469 | 2 | 2.1 | 4.2 *** | 51 | 4.8 *** | 54 | 5.0 *** | 52 |
| | estimated number of hours per | 23 | 21-25 hrs | 0 | 0 | 13 | 1 | 46 | 1 | 205 | 1 | | ▼Z | .51 | ▼ | .54 | ▼ | .52 |
| | week.) | 28 | 26-30 hrs | 0 | 0 | 5 | 0 | 17 | 0 | 84 | 0 | | Y | | • | | • | |
| | , | 33 | More than 30 hrs | 0 | 0 | 9 | 1 | 40 | 1 | 247 | 1 | | | | | | | |
| | | 33 | Total | 172 | 100 | | 100 | 4,576 | 100 | 21,444 | 100 | | | | | | | |
| 16 Of the time | 1 | 1 1 | | | | | | | 100 | 21,444 | 100 | | | | | | | |
| 16. Of the time you spe | | | | | | | | - | 2.4 | | 22 | | | | | | | |
| | reading | 1 | Very little | 48 | 28 | | 37 | 1,534 | 34 | 6,996 | 33 | | | | | | | |
| | | 2 | Some | 69 | 40 | | 40 | 1,813 | 40 | 8,453 | 39 | | | | | | | |
| | | 3 | About half | 38 | 22 | | 13 | 754 | 16 | 3,673 | 17 | 2.2 | 2.0 * | .18 | 2.1 | .09 | 2.1 | .07 |
| | | 4 | Most | 14 | 8 | 107 | 7 | 344 | 8 | 1,650 | 8 | | Δ | | | | | |
| | | 5 | Almost all | 3 | 2 | 40 | 3 | 128 | 3 | 634 | 3 | | | | | | | |
| | | | Total | 172 | 100 | 1,558 | 100 | 4,573 | 100 | 21,406 | 100 | | | | | | | |
| | tmreadinghrs | | | | | | | | | | | | | | | | | |
| (Continuous varie | able created by NSSE | Calcu | lated as a proportion | | | | | | | | | 5.6 | | | | | | |
| of tmprephrs bas | ted on reading, where thalf=.50; Most=.75 | e Very li | ttle=.10; Some=.25; | | | | | | | | | 5.6 | 5.3 | .06 | 5.5 | .02 | 5.6 | .00 |
| 710000 | , 100, 11001-170 | , : 11111001 | | | | | | | | | | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| Seniors ^a in | | | | | | Frequer | ncy D | istribution | ıS | | | | St | atistical | Comparis | sons ^k | | |
|--|------------------------------------|---------|--------------------------------|--------------|--------|-------------------|-------|-------------|----------|-------------|--------|------|-----------|------------|---------------|-------------------|-----------|----------|
| Aero and Er | ngineering | | | | | | | | | | | | | Y | our seniors c | ompared v | vith | |
| | | | | LIND | | District D. Islin | DI. | C | | NSSE 2016 | 5 & | UND | DI-1 D | latin Diag | C | | NCCE 204 | c 0 204= |
| Item wording | Variable | | | UND | | Plains Public | Plus | Carnegie Ci | ass | 2017 | | OND | Plains Pu | Effect | Carnegi | Effect | NSSE 2016 | Effect |
| or description | name ¹ | Values' | " Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | size " | Mean | size " | Mean | size " |
| | tmreadinghrscol | 1 | 0 hrs | 0 | 0 | 2 | 0 | 17 | 0 | 106 | 0 | | | | | | | |
| | (Collapsed version of tmreadinghrs | 2 | More than zero, up to 5 hrs | 100 | 58 | 995 | 64 | 2,803 | 61 | 12,788 | 60 | | | | | | | |
| | created by NSSE.) | 3 | More than 5, up to 10 hrs | 45 | 26 | 380 | 24 | 1,160 | 25 | 5,626 | 26 | | | | | | | |
| | | 4 | More than 10, up to 15 hrs | 20 | 12 | 81 | 5 | 273 | 6 | 1,252 | 6 | | | | | | | |
| | | 5 | More than 15, up to 20 hrs | 5 | 3 | 44 | 3 | 152 | 3 | 836 | 4 | | | | | | | |
| | | 6 | More than 20, up to 25 hrs | 1 | 1 | 34 | 2 | 105 | 2 | 502 | 2 | | | | | | | |
| | | 7 | More than 25 hrs | 1 | 1 | 18 | 1 | 49 | 1 | 237 | 1 | | | | | | | |
| | | | Total | 172 | 100 | 1,554 | 100 | 4,559 | 100 | 21,347 | 100 | | | | | | | |
| 17. How much has y | our experience at th | is inst | itution contributed to | your knowled | ge, sk | ills, and per | sonal | developmen | t in the | e following | areas? | • | | | | | | |
| a. Writing clearly and | pgwrite | 1 | Very little | 21 | 13 | 202 | 13 | 537 | 12 | 2,204 | 10 | | | | | | | |
| effectively | | 2 | Some | 58 | 35 | 539 | 34 | 1,470 | 32 | 6,327 | 30 | | | | | | | |
| | | 3 | Quite a bit | 57 | 34 | 542 | 35 | 1,645 | 36 | 8,119 | 38 | 2.6 | 2.6 | .02 | 2.6 | 05 | 2.7 | 14 |
| | | 4 | Very much | 32 | 19 | 280 | 18 | 924 | 20 | 4,783 | 22 | | | | | | | |
| | | | Total | 168 | 100 | 1,563 | 100 | 4,576 | 100 | 21,433 | 100 | | | | | | | |
| b. Speaking clearly and | l pgspeak | 1 | | 27 | 16 | 210 | 13 | 525 | 11 | 2,411 | 11 | | | | | | | |
| effectively | | 2 | Some | 55 | 32 | 517 | 33 | 1,439 | 31 | 6,306 | 29 | | | | | | | |
| | | 3 | Quite a bit | 60 | 35 | 545 | 35 | 1,622 | 35 | 7,726 | 36 | 2.5 | 2.6 | 05 | 2.7 | 14 | 2.7 * | 18 |
| | | 4 | Very much | 30 | 17 | 290 | 19 | 984 | 22 | 4,978 | 23 | | | | | | ∇ | |
| | | | Total | 172 | 100 | 1,562 | 100 | 4,570 | 100 | 21,421 | 100 | | | | | | | |
| c. Thinking critically at | nd pgthink | 1 | Very little | 2 | 1 | 40 | 3 | 103 | 2 | 535 | 2 | | | | | | | |
| analytically | | 2 | Some | 23 | 13 | 170 | 11 | 527 | 12 | 2,454 | 11 | | | | | | | |
| | | 3 | Quite a bit | 68 | 40 | 521 | 33 | 1,568 | 34 | 7,362 | 34 | 3.3 | 3.4 | 09 | 3.4 | 07 | 3.4 | 06 |
| | | 4 | Very much | 79 | 46 | 833 | 53 | 2,377 | 52 | 11,076 | 52 | | | | | | | |
| | | | Total | 172 | 100 | 1,564 | 100 | 4,575 | 100 | 21,427 | 100 | | | | | | | |
| d. Analyzing numerical and statistical | l pganalyze | 1 | Very little | 3 | 2 | 29 | 2 | 86 | 2 | 455 | 2 | | | | | | | |
| and statistical information | | 2 | Some | 13 | 8 | 178 | 11 | 451 | 10 | 2,302 | 11 | | | | | | | |
| monuton | | 3 | Quite a bit | 63 | 37 | 484 | 31 | 1,485 | 32 | 6,879 | 32 | 3.4 | 3.4 | .03 | 3.4 | .01 | 3.4 | .03 |
| | | 4 | Very much | 92 | 54 | 869 | 56 | 2,555 | 56 | 11,799 | 55 | | | | | | | |
| | | | Total | 171 | 100 | 1,560 | 100 | 4,577 | 100 | 21,435 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| Seniors ^a in | | | | | | Frequen | cy Di | istribution | S | | | | Sta | atistical (| Comparis | ons ^k | | |
|--------------------------------------|-------------------|----------|-------------------------------|-------|-----|-----------------|-------|-------------|-----|-----------|-----|------|-----------|-------------|----------------|------------------|-----------|------------------|
| Aero and Engi | neering | | | | | | | | | | | | | Y | our seniors co | mpared v | vith | |
| | | | | | | | | | | NSSE 2016 | 5 & | UND | | | | | | |
| Item wording | Variable | | | UND | | Plains Public I | Plus | Carnegie Cl | ass | 2017 | | UND | Plains Pu | Effect | Carnegie | Effect | NSSE 2016 | & 2017 Effect |
| or description | name ^l | Values ' | ⁿ Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | size " | Mean | size " | Mean | size" |
| e. Acquiring job- or work- | pgwork | 1 | Very little | 11 | 6 | 106 | 7 | 356 | 8 | 1,691 | 8 | | | | | | | |
| related knowledge and | | 2 | Some | 37 | 22 | 349 | 22 | 1,042 | 23 | 4,866 | 23 | | | | | | | |
| skills | | 3 | Quite a bit | 61 | 35 | 538 | 34 | 1,620 | 35 | 7,408 | 35 | 3.0 | 3.0 | .02 | 3.0 | .07 | 3.0 | .06 |
| | | 4 | Very much | 63 | 37 | 572 | 37 | 1,561 | 34 | 7,475 | 35 | | | | | | | |
| | | | Total | 172 | 100 | 1,565 | 100 | 4,579 | 100 | 21,440 | 100 | | | | | | | |
| f. Working effectively | pgothers | 1 | Very little | 14 | 8 | 77 | 5 | 212 | 5 | 977 | 5 | | | | | | | |
| with others | | 2 | Some | 50 | 29 | 338 | 22 | 933 | 20 | 4,234 | 20 | | | | | | | |
| | | 3 | Quite a bit | 62 | 36 | 651 | 42 | 1,838 | 40 | 8,524 | 40 | 2.8 | 3.0 ** | 23 | 3.1 *** | 28 | 3.1 *** | 31 |
| | | 4 | Very much | 45 | 26 | 498 | 32 | 1,591 | 35 | 7,701 | 36 | | ∇ | | ∇ | | ▼ | |
| | | | Total | 171 | 100 | 1,564 | 100 | 4,574 | 100 | 21,436 | 100 | | | | | | | |
| g. Developing or | pgvalues | 1 | Very little | 36 | 21 | 271 | 17 | 710 | 16 | 3,272 | 15 | | | | | | | |
| clarifying a personal | | 2 | Some | 55 | 32 | 542 | 35 | 1,356 | 30 | 6,252 | 29 | | | | | | | |
| code of values and ethics | | 3 | Quite a bit | 57 | 33 | 468 | 30 | 1,482 | 32 | 6,851 | 32 | 2.4 | 2.5 | 09 | 2.6 ** | 22 | 2.6 ** | 24 |
| cuires | | 4 | Very much | 24 | 14 | 282 | 18 | 1,028 | 22 | 5,061 | 24 | | | | ∇ | | ∇ | |
| | | | Total | 172 | 100 | 1,563 | 100 | 4,576 | 100 | 21,436 | 100 | | | | | | | |
| h. Understanding people | pgdiverse | 1 | Very little | 51 | 30 | 320 | 20 | 900 | 20 | 3,756 | 18 | | | | | | | |
| of other backgrounds | | 2 | Some | 67 | 39 | 590 | 38 | 1,572 | 34 | 7,168 | 33 | | | | | | | |
| (economic, racial/ethnic, political, | | 3 | Quite a bit | 34 | 20 | 421 | 27 | 1,285 | 28 | 6,219 | 29 | 2.1 | 2.4 ** | 23 | 2.4 *** | 31 | 2.5 *** | 38 |
| religious, nationality, | | 4 | Very much | 20 | 12 | 230 | 15 | 822 | 18 | 4,286 | 20 | | ∇ | | ▼ | | ▼ | |
| etc.) | | | Total | 172 | 100 | 1,561 | 100 | 4,579 | 100 | 21,429 | 100 | | | | | | | |
| i. Solving complex real- | pgprobsolve | 1 | Very little | 9 | 5 | 118 | 8 | 365 | 8 | 1,630 | 8 | | | | | | | |
| world problems | | 2 | Some | 40 | 23 | 350 | 22 | 997 | 22 | 4,791 | 22 | | | | | | | |
| | | 3 | Quite a bit | 60 | 35 | 556 | 36 | 1,646 | 36 | 7,465 | 35 | 3.0 | 3.0 | .06 | 3.0 | .06 | 3.0 | .05 |
| | | 4 | Very much | 62 | 36 | 539 | 34 | 1,573 | 34 | 7,551 | 35 | | | | | | | |
| | | | Total | 171 | 100 | 1,563 | 100 | 4,581 | 100 | 21,437 | 100 | | | | | | | |
| j. Being an informed and | pgcitizen | 1 | Very little | 44 | 26 | 390 | 25 | 1,120 | 25 | 4,561 | 21 | | | | | | | - |
| active citizen | | 2 | Some | 65 | 38 | 604 | 39 | 1,631 | 36 | 7,643 | 36 | | | | | | | |
| | | 3 | Quite a bit | 33 | 19 | 366 | 24 | 1,178 | 26 | 5,758 | 27 | 2.3 | 2.2 | .04 | 2.3 | 01 | 2.4 | 10 |
| | | 4 | Very much | 29 | 17 | 195 | 13 | 620 | 14 | 3,377 | 16 | | | | | | | |
| | | | Total | 171 | 100 | 1,555 | 100 | 4,549 | 100 | 21,339 | 100 | | | | | | | |



Frequencies and Statistical Comparisons: Aero and Engineering

| Seniors ^a in | | | | | | Frequer | ncy D | istribution | าร | | | | St | atistical | Compari | sons ^k | | |
|-------------------------|-------------------|-----------|-------------------------------|----------------|--------|---------------|-------|-------------|------|-----------|-----|------|-----------|-------------------|---------------|-------------------|----------|-------------------|
| Aero and En | gineering | | | | | | | | | | | | | Υ | our seniors o | ompared v | vith | |
| ACIO dila Eli | Sincering | | | | | | | | | NSSE 2016 | 6 & | | | | | | | |
| | | | | UND | | Plains Public | Plus | Carnegie C | lass | 2017 | | UND | Plains Pu | ublic Plus | Carnegi | e Class | NSSE 201 | 6 & 2017 |
| Item wording | Variable | | | | | | | | | | | | | Effect | | Effect | | Effect |
| or description | name ' | Values' | ⁿ Response options | Count | % | Count | % | Count | % | Count | % | Mean | Mean | size ⁿ | Mean | size ⁿ | Mean | size ⁿ |
| 18. How would you e | valuate your enti | re educa | ntional experience at th | is institution | ? | | | | | | | | | | | | | |
| | evalexp | 1 | Poor | 7 | 4 | 51 | 3 | 137 | 3 | 729 | 3 | | | | | | | |
| | | 2 | Fair | 28 | 16 | 205 | 13 | 644 | 14 | 2,941 | 14 | | | | | | | |
| | | 3 | Good | 83 | 49 | 751 | 48 | 2,165 | 47 | 9,684 | 45 | 3.1 | 3.2 | 13 | 3.2 | 12 | 3.2 | 14 |
| | | 4 | Excellent | 53 | 31 | 559 | 36 | 1,636 | 36 | 8,096 | 38 | | | | | | | |
| | | | Total | 171 | 100 | 1,566 | 100 | 4,582 | 100 | 21,450 | 100 | | | | | | | |
| 19. If you could start | over again, woul | ld you go | to the same institution | you are nov | v atte | ending? | | | | | | | | | | | | |
| | sameinst | 1 | Definitely no | 13 | 8 | 66 | 4 | 245 | 5 | 1,102 | 5 | | | | | | | |
| | | 2 | Probably no | 20 | 12 | 196 | 12 | 622 | 14 | 2,822 | 13 | | | | | | | |
| | | 3 | Probably yes | 90 | 52 | 668 | 43 | 1,940 | 42 | 9,008 | 42 | 3.0 | 3.2 ** | 22 | 3.1 | 15 | 3.2 * | 17 |
| | | 4 | Definitely yes | 49 | 28 | 639 | 41 | 1,781 | 39 | 8,555 | 40 | | ∇ | | | | ∇ | |
| | | | Total | 172 | 100 | 1,569 | 100 | 4,588 | 100 | 21,487 | 100 | | | | | | | |



Respondent Profile: Aero and Engineering

| Aero and Engin | eering | | | | First-Y | 'ear | Students | a | | | | | : | Seni | ors ^a | | | |
|--------------------------------|------------------|---|-------|-----|---------------|------|-------------|-----|-----------|-----|-------|-----|---------------|------|------------------|------|----------|-----|
| | | | | | | | | | NSSE 2016 | 8 | | | | | | | NSSE 201 | 6 & |
| | | | UND | | Plains Public | Plus | Carnegie Cl | ass | 2017 | | UND | | Plains Public | Plus | Carnegie C | lass | 2017 | |
| Item wording or description | Variable name | Response options | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % |
| 20a. How many majors do | MAJnum | One | 51 | 85 | 1,005 | 85 | 3,285 | 86 | 15,015 | 87 | 156 | 90 | 1,368 | 87 | 4,041 | 88 | 19,237 | 89 |
| you plan to complete? | | More than one | 9 | 15 | 175 | 15 | 545 | 14 | 2,155 | 13 | 17 | 10 | 204 | 13 | 559 | 12 | 2,295 | 11 |
| (Do not count minors.) | | Total | 60 | 100 | 1,180 | 100 | 3,830 | 100 | 17,170 | 100 | 173 | 100 | 1,572 | 100 | 4,600 | 100 | 21,532 | 100 |
| First major or expected | MAJfirstcol | Arts & Humanities | 0 | 0 | 1 | 0 | 16 | 0 | 54 | 0 | 0 | 0 | 1 | 0 | 12 | 0 | 40 | 0 |
| first major, in NSSE's | (Recoded from | Biological Sci., Agriculture, | 0 | 0 | 1 | 0 | 6 | 0 | 60 | 0 | 0 | 0 | 4 | 0 | 22 | 0 | 72 | 0 |
| default related-major | MAJfirst.) | & Natural Resources | U | U | 1 | U | 0 | U | 00 | U | U | U | 4 | U | 22 | U | 12 | U |
| categories. | 1111 20111 (0.1) | Physical Sci., Mathematics, | 4 | 7 | 56 | 5 | 152 | 4 | 931 | 5 | 14 | 8 | 114 | 7 | 242 | 5 | 1,422 | 7 |
| (This does not reflect | | & Computer Science Social Sciences | 0 | 0 | 0 | 0 | 4 | 0 | 24 | 0 | 0 | 0 | | 0 | 6 | 0 | 22 | 0 |
| any customization | | | 0 | 0 | 3 | | 4 | 0 | 24 | | 1 | 1 | 2 | 0 | - | 0 | 32 | 0 |
| made for the Major | | Business Communications, Media, | U | U | 3 | 0 | 4 | U | 50 | 0 | 1 | 1 | 2 | U | 12 | U | 68 | U |
| Field Report.) | | & Public Relations | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 0 |
| | | Education | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 16 | 0 |
| | | Engineering | 54 | 90 | 1,112 | 94 | 3,640 | 95 | 15,976 | 93 | 157 | 91 | 1,441 | 92 | 4,294 | 93 | 19,795 | 92 |
| | | Health Professions | 1 | 2 | 4 | 0 | 3 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 15 | 0 |
| | | Social Service Professions | 0 | 0 | 0 | 0 | 1 | 0 | 8 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 11 | 0 |
| | | All Other | 1 | 2 | 3 | 0 | 4 | 0 | 30 | 0 | 1 | 1 | 6 | 0 | 4 | 0 | 52 | 0 |
| | | Undecided, Undeclared | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | | Total | 60 | 100 | 1,180 | 100 | 3,830 | 100 | 17,169 | 100 | 173 | 100 | 1,572 | 100 | 4,599 | 100 | 21,529 | 100 |
| Second major or | MAJsecondcol | Arts & Humanities | 1 | 13 | 8 | 5 | 56 | 10 | 180 | 8 | 2 | 12 | 11 | 6 | 57 | 10 | 144 | 6 |
| expected second major, | (Recoded from | Biological Sci., Agriculture, | 1 | 13 | 7 | 4 | 18 | 3 | 84 | 4 | 0 | 0 | 11 | 6 | 15 | 3 | 87 | 4 |
| in NSSE's default | MAJsecond.) | & Natural Resources | 1 | 13 | , | 7 | 10 | 3 | 04 | 7 | Ü | Ü | 11 | Ü | 13 | 3 | 07 | 7 |
| related-major | , | Physical Sci., Mathematics, & Computer Science | 2 | 25 | 27 | 15 | 110 | 20 | 519 | 24 | 1 | 6 | 39 | 20 | 109 | 20 | 607 | 27 |
| categories. | | Social Sciences | 0 | 0 | 7 | 4 | 13 | 2 | 56 | 3 | 4 | 24 | . 13 | 7 | 22 | 4 | 94 | 4 |
| (This does not reflect | | Business | 0 | 0 | 11 | 6 | 41 | 8 | 146 | 7 | 0 | 0 | | 3 | 34 | 6 | 145 | 6 |
| any customization | | Communications, Media, | _ | | | | | | | | | U | 3 | 3 | | U | | |
| made for the Major | | & Public Relations | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 1 | 1 | 3 | 1 | 6 | 0 |
| Field Report.) | | Education | 0 | 0 | 0 | 0 | 3 | 1 | 22 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 19 | 1 |
| | | Engineering | 2 | 25 | 108 | 62 | 270 | 50 | 1,010 | 47 | 8 | 47 | 108 | 54 | 283 | 51 | 1,002 | 44 |
| | | Health Professions | 1 | 13 | 1 | 1 | 7 | 1 | 26 | 1 | 0 | 0 | 2 | 1 | 5 | 1 | 33 | 1 |
| | | Social Service Professions | 0 | 0 | 2 | 1 | 5 | 1 | 17 | 1 | 0 | 0 | 1 | 1 | 4 | 1 | 19 | 1 |
| | | All Other | 0 | 0 | 4 | 2 | 15 | 3 | 55 | 3 | 2 | 12 | 5 | 3 | 15 | 3 | 79 | 3 |
| | | Undecided, Undeclared | 1 | 13 | 0 | 0 | 6 | 1 | 24 | 1 | 0 | 0 | 3 | 2 | 7 | 1 | 44 | 2 |
| | | Total | 8 | 100 | 175 | 100 | 544 | 100 | 2,145 | 100 | 17 | 100 | 200 | 100 | 555 | 100 | 2,279 | 100 |



Respondent Profile: Aero and Engineering

| Ae | ro and Engin | eering | | | | First-Y | ear | Students | a | | | | | : | Seni | ors ^a | | | |
|------|----------------------------------|------------------|---------------------------|-------|-----|---------------|------|-------------|--------|---------------|-----|-------|-----|---------------|------|------------------|------|-----------|-----|
| | | _ | | | | | | | | NSSE 2016 | 5 & | | | | | | | NSSE 2016 | 6 & |
| | | | | UND | | Plains Public | Plus | Carnegie Cl | lass | 2017 | | UND | | Plains Public | Plus | Carnegie C | lass | 2017 | |
| | Item wording or description | Variable name | Response options | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % |
| 21. | What is your class | class | Freshman/First-year | 54 | 90 | | 88 | 3,460 | 91 | 15,285 | 90 | 2 | 1 | | 0 | 21 | 0 | 65 | 0 |
| | level? | | Sophomore | 5 | 8 | 100 | 9 | 278 | 7 | 1,461 | 9 | 6 | 3 | 22 | 1 | 83 | 2 | 361 | 2 |
| | | | Junior | 1 | 2 | 31 | 3 | 41 | 1 | 215 | 1 | 38 | 22 | 224 | 14 | 654 | 14 | 3,200 | 15 |
| | | | Senior | 0 | 0 | 2 | 0 | 18 | 0 | 47 | 0 | 122 | 71 | 1,290 | 82 | 3,745 | 82 | 17,421 | 81 |
| | | | Unclassified | 0 | 0 | 6 | 1 | 14 | 0 | 65 | 0 | 5 | 3 | 27 | 2 | 83 | 2 | 396 | 2 |
| | | | Total | 60 | 100 | 1,175 | 100 | 3,811 | 100 | 17,073 | 100 | 173 | 100 | 1,566 | 100 | 4,586 | 100 | 21,443 | 100 |
| 22. | Thinking about this | fulltime | No | 0 | 0 | 18 | 2 | 70 | 2 | 493 | 3 | 53 | 31 | 170 | 11 | 616 | 14 | 3,267 | 15 |
| | current academic term, | | Yes | 58 | 100 | 1,150 | 98 | 3,719 | 98 | 16,507 | 97 | 119 | 69 | 1,382 | 89 | 3,934 | 86 | 18,042 | 85 |
| | are you a full-time student? | | Total | 58 | 100 | 1,168 | 100 | 3,789 | 100 | 17,000 | 100 | 172 | 100 | 1,552 | 100 | 4,550 | 100 | 21,309 | 100 |
| 23a. | How many courses are | coursenum | 0 | 0 | 0 | 1 | 0 | 5 | 0 | 53 | 0 | 0 | 0 | 30 | 2 | 81 | 2 | 492 | 2 |
| | you taking for credit | | 1 | 0 | 0 | 2 | 0 | 8 | 0 | 91 | 1 | 9 | 5 | 15 | 1 | 98 | 2 | 537 | 3 |
| | this current academic | | 2 | 1 | 2 | 6 | 1 | 17 | 0 | 175 | 1 | 25 | 14 | 40 | 3 | 186 | 4 | 1,089 | 5 |
| | term? | | 3 | 0 | 0 | 44 | 4 | 147 | 4 | 615 | 4 | 15 | 9 | | 6 | 387 | 8 | 1,987 | 9 |
| | | | 4 | 9 | 15 | 415 | 35 | 921 | 24 | 4,517 | 26 | 36 | 21 | 471 | 30 | 1,238 | 27 | 6,205 | 29 |
| | | | 5 | 21 | 35 | 478 | 41 | 1,535 | 40 | 6,585 | 39 | 53 | 31 | 574 | 37 | 1,457 | 32 | 6,370 | 30 |
| | | | 6 | 14 | 23 | 132 | 11 | 724 | 19 | 3,084 | 18 | 17 | 10 | | 13 | 710 | 15 | 2,831 | 13 |
| | | | 7 or more | 15 | 25 | | 8 | 453 | 12 | 1,959 | 11 | 18 | 10 | | 8 | 427 | 9 | 1,942 | 9 |
| | | | Total | 60 | 100 | | 100 | 3,810 | 100 | 17,079 | 100 | 173 | 100 | | 100 | 4,584 | 100 | 21,453 | 100 |
| t | . Of these, how many are | onlinenum | 0 | 53 | 88 | , | 85 | 3,469 | 92 | 15,058 | 89 | 85 | 49 | | 83 | 3,801 | 83 | 17,612 | 82 |
| | entirely online? | | 1 | 7 | 12 | | 11 | 233 | 6 | 1,332 | 8 | 27 | 16 | · · | 12 | 534 | 12 | 2,498 | 12 |
| | | | 2 | 0 | 0 | | 2 | 43 | 1 | 295 | 2 | 28 | 16 | | 3 | 139 | 3 | 711 | 3 |
| | | | 3 | 0 | 0 | | 1 | 20 | 1 | 121 | 1 | 13 | 8 | | 1 | 43 | 1 | 234 | 1 |
| | | | 4 | 0 | 0 | | 0 | 15 | 0 | 87 | 1 | 9 | 5 | | 0 | 24 | 1 | 134 | 1 |
| | | | 5 | 0 | 0 | 1 | 0 | 6 | 0 | 37 | 0 | 6 | 3 | • | 0 | 7 | 0 | 61 | 0 |
| | | | 6 | 0 | 0 | 1 | 0 | 2 | 0 | 18 | 0 | 1 | 1 | 3 | 0 | 7 | 0 | 47 | 0 |
| | | | 7 or more | 0 | 0 | - | 0 | 3 | 0 | 31 | 0 | 4 | 2 | | 0 | 11 | 0 | 53 | 0 |
| | | | Total | 60 | 100 | - | 100 | 3,791 | 100 | 16,979 | 100 | 173 | 100 | | 100 | 4,566 | 100 | 21,350 | 100 |
| | Collapsed recode of | onlinecrscol | No courses taken online | 53 | 88 | | 85 | 3,468 | 92 | 15,056 | 89 | 85 | 49 | | 83 | 3,801 | 83 | 17,612 | 82 |
| | courses taken online | ommeer seed | Some courses taken online | 7 | 12 | | 15 | 286 | 8 | 1,604 | 9 | 28 | 16 | | 16 | 667 | 15 | 3,014 | 14 |
| | (Based on responses to | | All courses taken online | 0 | 0 | | 13 | 36 | 0 1 | | 2 | 60 | 35 | | 10 | | 2 | 724 | 3 |
| | coursenum <i>and</i> onlinenum.) | | Total | 60 | 100 | | 100 | 3,790 | 100 | 317 16,977 | 100 | 173 | 100 | | 100 | 98 4,566 | 100 | 21,350 | 100 |



Respondent Profile: Aero and Engineering

| Ae | ro and Engin | eering | | | | First-\ | ear | Students | a | | | | | | Seni | ors ^a | | | |
|-----|---|------------------|---|-------|-----|---------------|------|------------|------|-----------|-----|-------|-----|---------------|------|------------------|-----|-----------|-----|
| | | | | | | | | | | NSSE 2016 | 5 & | | | | | | | NSSE 2016 | 6 & |
| | | | | UND | | Plains Public | Plus | Carnegie C | lass | 2017 | | UND | | Plains Public | Plus | Carnegie C | ass | 2017 | |
| | Item wording or description | Variable name | Response options | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % |
| 24. | What have most of your | grades | C- or lower | 0 | 0 | 19 | 2 | 62 | 2 | 259 | 2 | 0 | 0 | 2 | 0 | 23 | 1 | 91 | 0 |
| | grades been up to now | | C | 2 | 3 | 44 | 4 | 109 | 3 | 473 | 3 | 4 | 2 | 44 | 3 | 154 | 3 | 614 | 3 |
| | at this institution? | | C+ | 4 | 7 | 47 | 4 | 177 | 5 | 722 | 4 | 13 | 8 | 93 | 6 | 277 | 6 | 1,126 | 5 |
| | | | B- | 1 | 2 | 84 | 7 | 250 | 7 | 1,121 | 7 | 14 | 8 | 138 | 9 | 367 | 8 | 1,818 | 8 |
| | | | В | 13 | 22 | 230 | 20 | 704 | 19 | 3,308 | 19 | 47 | 27 | 347 | 22 | 948 | 21 | 4,628 | 22 |
| | | | B+ | 12 | 20 | 200 | 17 | 704 | 19 | 3,050 | 18 | 22 | 13 | 256 | 16 | 856 | 19 | 4,108 | 19 |
| | | | A- | 9 | 15 | 215 | 18 | 727 | 19 | 3,438 | 20 | 22 | 13 | 280 | 18 | 799 | 17 | 3,870 | 18 |
| | | | A | 19 | 32 | 332 | 28 | 1,072 | 28 | 4,674 | 27 | 51 | 29 | 402 | 26 | 1,152 | 25 | 5,159 | 24 |
| | | | Total | 60 | 100 | 1,171 | 100 | 3,805 | 100 | 17,045 | 100 | 173 | 100 | 1,562 | 100 | 4,576 | 100 | 21,414 | 100 |
| | Did you begin college | begincol | Started here | 58 | 97 | 1,056 | 90 | 3,557 | 94 | 15,787 | 93 | 75 | 43 | 979 | 63 | 2,989 | 65 | 13,456 | 63 |
| | at this institution or | | Started elsewhere | 2 | 3 | 112 | 10 | 242 | 6 | 1,248 | 7 | 98 | 57 | 578 | 37 | 1,585 | 35 | 7,947 | 37 |
| | elsewhere? | | Total | 60 | 100 | 1,168 | 100 | 3,799 | 100 | 17,035 | 100 | 173 | 100 | 1,557 | 100 | 4,574 | 100 | 21,403 | 100 |
| 6. | Since graduating from | attend_voc | Vocational or technical school | 1 | 2 | 29 | 2 | 65 | 2 | 444 | 3 | 11 | 6 | 83 | 5 | 209 | 5 | 1,263 | 6 |
| | high school, which of | attend_com | Community or junior college | 1 | 2 | 101 | 9 | 282 | 7 | 1,284 | 8 | 78 | 45 | 618 | 40 | 1,564 | 34 | 7,544 | 35 |
| | the following types of schools have you | attend_col | 4-year college or university other than this one | 2 | 3 | 90 | 8 | 239 | 6 | 1,289 | 8 | 76 | 44 | 334 | 21 | 984 | 22 | 4,749 | 22 |
| | attended other than the | attend_none | None | 54 | 90 | 925 | 79 | 3,140 | 83 | 13,700 | 81 | 55 | 32 | 690 | 44 | 2,284 | 50 | 10,187 | 48 |
| | one you are now attending? (Select all that apply.) | attend_other | Other | 1 | 2 | 35 | 3 | 102 | 3 | 615 | 4 | 13 | 8 | 50 | 3 | 169 | 4 | 813 | 4 |
| 27. | What is the highest level of education you | edaspire | Some college but less than a bachelor's degree | 5 | 8 | 55 | 5 | 164 | 4 | 769 | 5 | 14 | 8 | 69 | 4 | 196 | 4 | 1,054 | 5 |
| | ever expect to | | Bachelor's degree (B.A., B.S., etc.) | 31 | 52 | 526 | 45 | 1,241 | 33 | 5,799 | 34 | 80 | 46 | 664 | 43 | 1,503 | 33 | 7,474 | 35 |
| | complete? | | Master's degree (M.A., M.S., etc.) | 20 | 33 | 433 | 37 | 1,731 | 46 | 7,589 | 45 | 63 | 36 | 630 | 40 | 2,142 | 47 | 9,601 | 45 |
| | | | Doctoral or professional degree (Ph.D., J.D., M.D., etc.) | 4 | 7 | 150 | 13 | 656 | 17 | 2,842 | 17 | 16 | 9 | 195 | 13 | 729 | 16 | 3,270 | 15 |
| | | | Total | 60 | 100 | 1,164 | 100 | 3,792 | 100 | 16,999 | 100 | 173 | 100 | 1,558 | 100 | 4,570 | 100 | 21,399 | 100 |



Respondent Profile: Aero and Engineering

| Ae | ro and Engin | eering | | | | First-Y | 'ear | Students | а | | | | | : | Seni | ors ^a | | | |
|------|---|--------------------------|---|-------|-----|---------------|------|------------|------|-----------|-----|-------|-----|---------------|------|------------------|------|-----------|----------------|
| | | | | | | | | | | NSSE 2016 | 5 & | | | | | | | NSSE 2016 | 5 & |
| | | | | UND | | Plains Public | Plus | Carnegie C | lass | 2017 | | UND | | Plains Public | Plus | Carnegie C | lass | 2017 | |
| | Item wording or description | Variable name | Response options | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % |
| 28. | What is the highest | parented | Did not finish high school | 0 | 0 | 32 | 3 | 147 | 4 | 727 | 4 | 5 | 3 | | 2 | 208 | 5 | 1,030 | 5 |
| | level of education | • | High school diploma or G.E.D. | 3 | 5 | 114 | 10 | 472 | 12 | 2,175 | 13 | 25 | 15 | | 13 | 564 | 12 | 2,953 | 14 |
| | completed by either of your parents (or those | | Attended college, but did not complete degree | 9 | 15 | 79 | 7 | 301 | 8 | 1,326 | 8 | 19 | 11 | 113 | 7 | 371 | 8 | 1,705 | 8 |
| | who raised you)? | | Associate's degree (A.A., A.S., etc.) | 6 | 10 | 117 | 10 | 286 | 8 | 1,304 | 8 | 19 | 11 | 172 | 11 | 396 | 9 | 1,832 | 9 |
| | | | Bachelor's degree (B.A., B.S., etc.) | 22 | 37 | 459 | 39 | 1,228 | 33 | 5,562 | 33 | 53 | 31 | 593 | 38 | 1,565 | 34 | 7,074 | 33 |
| | | | Master's degree (M.A., M.S., etc.) | 12 | 20 | 273 | 23 | 1,000 | 26 | 4,365 | 26 | 40 | 23 | 334 | 21 | 1,080 | 24 | 4,918 | 23 |
| | | | Doctoral or professional degree (Ph.D., J.D., M.D., etc.) | 8 | 13 | 91 | 8 | 343 | 9 | 1,502 | 9 | 11 | 6 | 106 | 7 | 382 | 8 | 1,818 | ç |
| | | | Total | 60 | 100 | 1,165 | 100 | 3,777 | 100 | 16,961 | 100 | 172 | 100 | 1,555 | 100 | 4,566 | 100 | 21,330 | 100 |
| | First-generation status (Neither parent holds a | firstgen | Not first-generation | 42 | 70 | 823 | 71 | 2,571 | 68 | 11,429 | 67 | 104 | 60 | 1,033 | 66 | 3,027 | 66 | 13,810 | 65 |
| | bachelor's degree.) | (Recoded from parented.) | First-generation | 18 | 30 | 342 | 29 | 1,206 | 32 | 5,532 | 33 | 68 | 40 | 522 | 34 | 1,539 | 34 | 7,520 | 35 |
| | | paremed.) | Total | 60 | 100 | 1,165 | 100 | 3,777 | 100 | 16,961 | 100 | 172 | 100 | 1,555 | 100 | 4,566 | 100 | 21,330 | 100 |
| 29. | What is your gender | genderid | Man | 44 | 75 | 840 | 72 | 2,554 | 67 | 11,602 | 68 | 129 | 75 | 1,133 | 73 | 3,173 | 69 | 14,937 | 70 |
| | identity? | | Woman | 14 | 24 | 305 | 26 | 1,149 | 30 | 5,028 | 30 | 35 | 20 | 380 | 24 | 1,271 | 28 | 5,772 | 27 |
| | | | Another gender identity | 0 | 0 | 7 | 1 | 46 | 1 | 192 | 1 | 6 | 3 | 17 | 1 | 44 | 1 | 286 | 1 |
| | | | I prefer not to respond | 1 | 2 | 12 | 1 | 43 | 1 | 188 | 1 | 3 | 2 | 25 | 2 | 79 | 2 | 377 | 2 |
| | | | Total | 59 | 100 | 1,164 | 100 | 3,792 | 100 | 17,010 | 100 | 173 | 100 | 1,555 | 100 | 4,567 | 100 | 21,372 | 100 |
| 30. | Enter your year of birth | agecat | 19 or younger | 59 | 100 | 1,064 | 92 | 3,388 | 90 | 15,163 | 90 | 0 | 0 | 8 | 1 | 36 | 1 | 165 | 1 |
| | (e.g., 1994): | (Recoded | 20-23 | 0 | 0 | 70 | 6 | 307 | 8 | 1,234 | 7 | 85 | 50 | 1,182 | 76 | 3,256 | 72 | 14,893 | 70 |
| | | from the | 24-29 | 0 | 0 | 13 | 1 | 40 | 1 | 243 | 1 | 35 | 20 | 220 | 14 | 785 | 17 | 3,720 | 1 |
| | | information | 30-39 | 0 | 0 | 9 | 1 | 24 | 1 | 164 | 1 | 40 | 23 | 98 | 6 | 316 | 7 | 1,748 | |
| | | entered in | 40-55 | 0 | 0 | 5 | 0 | 7 | 0 | 77 | 0 | 11 | 6 | 37 | 2 | 114 | 3 | 606 | : |
| | | birthyear.) | Over 55 | 0 | 0 | 1 | 0 | 2 | 0 | 6 | 0 | 0 | 0 | 1 | 0 | 14 | 0 | 63 | |
| | | | Total | 59 | 100 | 1,162 | 100 | 3,768 | 100 | 16,887 | 100 | 171 | 100 | 1,546 | 100 | 4,521 | 100 | 21,195 | 10 |
| 31a. | Are you an | internat | No | 60 | 100 | 1,070 | 92 | 3,458 | 92 | 15,513 | 92 | 170 | 99 | 1,446 | 93 | 4,239 | 93 | 19,930 | 9 |
| | international student? | | Yes | 0 | 0 | 90 | 8 | 310 | 8 | 1,397 | 8 | 2 | 1 | 106 | 7 | 302 | 7 | 1,346 | |
| | | | Total | 60 | 100 | 1,160 | 100 | 3,768 | 100 | 16,910 | 100 | 172 | 100 | 1,552 | 100 | 4,541 | 100 | 21,276 | 10 |
| | [If answered "yes"] | countrycol | Africa Sub-Saharan | 0 | 0 | 4 | 5 | 15 | 5 | 115 | 9 | 0 | 0 | 14 | 14 | 33 | 12 | 101 | |
| | Country of citizenship, | | Asia | 0 | 0 | 43 | 52 | 124 | 42 | 540 | 41 | 0 | 0 | 54 | 54 | 104 | 36 | 528 | 4: |
| | collapsed into regions | (Recoded from | Canada | 0 | 0 | 0 | 0 | 5 | 2 | 18 | 1 | 2 | 100 | 0 | 0 | 7 | 2 | 17 | |
| | by NSSE. Responses to country are in the data | country.) | Europe | 0 | 0 | 1 | 1 | 17 | 6 | 86 | 7 | 0 | 0 | 1 | 1 | 15 | 5 | 78 | |
| | file. | | Latin America and Caribbean | 0 | 0 | 16 | 19 | 78 | 26 | 266 | 20 | 0 | 0 | 11 | 11 | 55 | 19 | 214 | 1 |
| | | | Middle East and North Africa | 0 | 0 | 18 | 22 | 56 | 19 | 283 | 22 | 0 | 0 | 19 | 19 | 70 | 25 | 319 | 2 |
| | | | Oceania | 0 | 0 | 1 | 1 | 1 | 0 | 8 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 5 | |
| | | | Unknown region/uncoded | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | Total | 0 | 0 | 83 | 100 | 296 | 100 | 1,316 | 100 | 2 | 100 | 100 | 100 | 285 | 100 | 1,262 | 100 |



Respondent Profile: Aero and Engineering

| A | ero and Engin | | | First-\ | 'ear | Students | a | | Seniors ^a | | | | | | | | | | |
|---|--|--------------------------------|--|---------|------|--------------------|-----|----------------|----------------------|-------------|---------|-------|-----|---------------|---------|------------|---------|----------|---------|
| | | | | | | | | | | NSSE 2016 & | | | | | | | | NSSE 201 | .6 & |
| | | Variable | | UND | | Plains Public Plus | | Carnegie Class | | 2017 | | UND | | Plains Public | Plus | Carnegie C | lass | 2017 | |
| | Item wording or description | Variable name | Response options | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % |
| 32. | What is your racial or | re_amind | American Indian or Alaska Native | 0 | 0 | | 2 | 90 | 2 | 307 | 2 | 5 | 3 | | 2 | | 2 | 387 | 2 |
| | ethnic identification? (Select all that apply.) | re_asian | Asian | 0 | 0 | 90 | 8 | 431 | 11 | 2,350 | 14 | 1 | 1 | 122 | 8 | 418 | 9 | 2,603 | 12 |
| | | re_black | Black or African American | 2 | 3 | 40 | 3 | 281 | 7 | 1,323 | 8 | 6 | 3 | 58 | 4 | 263 | 6 | 1,175 | 6 |
| | | re_latino | Hispanic or Latino | 2 | 3 | 71 | 6 | 524 | 14 | 2,267 | 13 | 8 | 5 | 66 | 4 | 516 | 11 | 2,390 | 11 |
| 32. 33. | | re_pacific | Native Hawaiian or Other Pacific Islander | 0 | 0 | 10 | 1 | 33 | 1 | 194 | 1 | 1 | 1 | 7 | 0 | 34 | 1 | 185 | 1 |
| | | re_white | White | 54 | 90 | 941 | 81 | 2,569 | 68 | 11,149 | 66 | 149 | 86 | 1,261 | 81 | 3,254 | 72 | 14,685 | 69 |
| | | re_other | Other | 1 | 2 | 22 | 2 | 114 | 3 | 522 | 3 | 2 | 1 | 31 | 2 | 122 | 3 | 630 | 3 |
| | | re_pnr | I prefer not to respond | 3 | 5 | 34 | 3 | 111 | 3 | 565 | 3 | 10 | 6 | 69 | 4 | 230 | 5 | 1,052 | 5 |
| | Racial or ethnic | re_all | American Indian or Alaska Native | 0 | 0 | 5 | 0 | 20 | 1 | 44 | 0 | 0 | 0 | 3 | 0 | 20 | 0 | 83 | 0 |
| | identification | (Recoded from | Asian | 0 | 0 | 80 | 7 | 347 | 9 | 1,897 | 11 | 1 | 1 | 105 | 7 | 329 | 7 | 2,130 | 10 |
| | | re_amind to | Black or African American | 1 | 2 | 34 | 3 | 219 | 6 | 1,026 | 6 | 5 | 3 | 43 | 3 | 223 | 5 | 951 | 4 |
| | | re_pnr | Hispanic or Latino | 2 | 3 | 47 | 4 | 377 | 10 | 1,600 | 9 | 6 | 3 | 40 | 3 | 380 | 8 | 1,741 | 8 |
| | | where each | Native Hawaiian/Other Pac. Islander | 0 | 0 | 1 | 0 | 7 | 0 | 48 | 0 | 1 | 1 | 1 | 0 | 8 | 0 | 38 | 0 |
| | | student is represented only | White | 52 | 87 | 884 | 76 | 2,301 | 61 | 9,939 | 59 | 142 | 82 | 1,193 | 77 | 2,984 | 66 | 13,391 | 63 |
| | | once.) | Other | 0 | 0 | 19 | 2 | 76 | 2 | 339 | 2 | 1 | 1 | 21 | 1 | 81 | 2 | 415 | 2 |
| | | , | Multiracial | 2 | 3 | 61 | 5 | 317 | 8 | 1,474 | 9 | 7 | 4 | 73 | 5 | 295 | 6 | 1,492 | 7 |
| | | | I prefer not to respond | 3 | 5 | 34 | 3 | 111 | 3 | 565 | 3 | 10 | 6 | 69 | 4 | 230 | 5 | 1,052 | 5 |
| | | | Total | 60 | 100 | 1,165 | 100 | 3,775 | 100 | 16,932 | 100 | 173 | 100 | 1,548 | 100 | 4,550 | 100 | 21,293 | 100 |
| 33. | Are you a member of a | greek | No | 53 | 88 | 982 | 84 | 3,341 | 88 | 15,456 | 91 | 158 | 91 | 1,263 | 81 | 3,798 | 83 | 18,675 | 88 |
| Rac ider 33. Are soci sorr 34. Wh besi you atte | social fraternity or | | Yes | 7 | 12 | 183 | 16 | 440 | 12 | 1,503 | 9 | 15 | 9 | 288 | 19 | 755 | 17 | 2,633 | 12 |
| | sorority? | | Total | 60 | 100 | 1,165 | 100 | 3,781 | 100 | 16,959 | 100 | 173 | 100 | 1,551 | 100 | 4,553 | 100 | 21,308 | 100 |
| 34. | Which of the following | living | Residence hall, dormitory or other | 57 | 95 | 804 | 69 | 2,636 | 70 | 11,680 | 69 | 17 | 10 | 125 | 8 | 526 | 12 | 3,308 | 16 |
| | best describes where | | camp. | 0 | 0 | 00 | 0 | | | | | 2 | | | 7 | | | | |
| | you are living while attending college? | | Fraternity or sorority house Residence (house, apartment, etc.) | 0 | 0 | 98 | 8 | 102 | 3 | 230 | 1 | 3 | 2 | 108 | 7 | 215 | 5 | 587 | 3 |
| | attending conege. | | within walking distance to the | 1 | 2 | 103 | 9 | 311 | 8 | 1,236 | 7 | 46 | 27 | 676 | 44 | 1,576 | 35 | 6,602 | 31 |
| | | | institution | | | | | | | -, | | | | | | -, | | -, | |
| | | | Residence (house, apartment, etc.) | | | | | | | | | | | | | | | | |
| | | | farther than walking distance | 2 | 3 | 144 | 12 | 631 | 17 | 3,208 | 19 | 87 | 51 | 609 | 39 | 2,100 | 46 | 9,929 | 47 |
| | | | to the institution None of the above | 0 | 0 | 16 | 1 | 89 | 2 | 552 | 3 | 19 | 11 | 34 | 2 | 130 | 3 | 860 | 4 |
| | | | Total | 60 | 100 | | 100 | 3,769 | 100 | 16,906 | 100 | 172 | 100 | | 100 | 4,547 | 100 | 21,286 | |
| 35 | Are you a student- | athlete | No | 58 | 97 | | 94 | 3,769 | 93 | 15,552 | 92 | 169 | 98 | | 96 | | 95 | 20,267 | 95 |
| <i>JJ</i> . | athlete on a team | auncie | Yes | 28 | 3 | | 6 | 256 | 93 7 | 1,330 | 92 8 | 3 | 98 | | 96 4 | 4,313 | 95 5 | 20,267 | 95 5 |
| | sponsored by your | | Total | 60 | 100 | | 100 | 3,769 | 100 | 1,330 | 100 | 172 | 100 | | 100 | 4,536 | 100 | 21,261 | 100 |
| | institution's athletics department? | | Total | 00 | 100 | 1,102 | 100 | 3,709 | 100 | 10,082 | 100 | 172 | 100 | 1,545 | 100 | 4,530 | 100 | 21,201 | 100 |



Respondent Profile: Aero and Engineering

| Aero and Engineering | | | | | | First-Y | 'ear | Students | а | | Seniors ^a | | | | | | | | | |
|----------------------|--|-------------------------------------|--|-------|-----|---------------|------|-------------|------|-------------------|----------------------|-------|-----|---------------|-----|-------------|-----|-------------------|-----|--|
| | | | | UND | | Plains Public | Plus | Carnegie Cl | lass | NSSE 2016 2017 | i & | UND | | Plains Public | | Carnegie Cl | ass | NSSE 2010 2017 | | |
| | Item wording or description | Variable name | Response options | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | |
| 36. | Are you a current or | veteran | No | 59 | 98 | 1,129 | 98 | 3,698 | 98 | 16,162 | 96 | 154 | 90 | 1,483 | 96 | 4,281 | 94 | 19,616 | 92 | |
| | former member of the | | Yes | 1 | 2 | 25 | 2 | 72 | 2 | 739 | 4 | 17 | 10 | 64 | 4 | 254 | 6 | 1,644 | 8 | |
| | U.S. Armed Forces, Reserves, or National Guard? | | Total | 60 | 100 | 1,154 | 100 | 3,770 | 100 | 16,901 | 100 | 171 | 100 | 1,547 | 100 | 4,535 | 100 | 21,260 | 100 | |
| 37a. | Have you been | disability | No | 56 | 93 | 1,028 | 88 | 3,329 | 88 | 14,921 | 88 | 145 | 84 | 1,384 | 89 | 3,969 | 87 | 18,520 | 87 | |
| | diagnosed with any | | Yes | 3 | 5 | 102 | 9 | 334 | 9 | 1,482 | 9 | 21 | 12 | 137 | 9 | 462 | 10 | 2,122 | 10 | |
| | disability or | | I prefer not to respond | 1 | 2 | 32 | 3 | 118 | 3 | 543 | 3 | 7 | 4 | 33 | 2 | 126 | 3 | 679 | 3 | |
| b. [4 W | impairment? | | Total | 60 | 100 | 1,162 | 100 | 3,781 | 100 | 16,946 | 100 | 173 | 100 | 1,554 | 100 | 4,557 | 100 | 21,321 | 100 | |
| b | which of the following has been diagnosed? (Select all that apply.) dis_le dis_m dis_ot | dis_sense | A sensory impairment (vision or hearing) | 0 | 0 | 16 | 16 | 68 | 20 | 297 | 20 | 2 | 10 | 14 | 10 | 57 | 12 | 317 | 15 | |
| | | dis_mobility | A mobility impairment | 0 | 0 | 2 | 2 | 23 | 7 | 90 | 6 | 3 | 14 | 6 | 4 | 28 | 6 | 172 | 8 | |
| | | dis_learning | A learning disability (e.g., ADHD, dyslexia) | 2 | 67 | 53 | 52 | 175 | 53 | 737 | 50 | 13 | 62 | 2 78 | 57 | 246 | 53 | 1,043 | 49 | |
| | | dis_mental | A mental health disorder | 1 | 33 | 30 | 29 | 82 | 25 | 387 | 26 | 6 | 29 | 43 | 31 | 142 | 31 | 637 | 30 | |
| | | dis_other | A disability or impairment not listed above | 0 | 0 | 17 | 17 | 50 | 15 | 239 | 16 | 2 | 10 | 25 | 18 | 77 | 17 | 419 | 20 | |
| | Disability or | disability_all | A sensory impairment | 0 | 0 | 9 | 1 | 49 | 1 | 209 | 1 | 0 | 0 | 10 | 1 | 42 | 1 | 197 | 1 | |
| | impairment | (Recoded from | A mobility impairment | 0 | 0 | 1 | 0 | 12 | 0 | 56 | 0 | 1 | 1 | 3 | 0 | 12 | 0 | 79 | 0 | |
| | | disability and | A learning disability | 2 | 3 | 40 | 3 | 135 | 4 | 564 | 3 | 12 | 7 | 59 | 4 | 185 | 4 | 782 | 4 | |
| | | dis_sense to | A mental health disorder | 1 | 2 | 22 | 2 | 44 | 1 | 227 | 1 | 4 | 2 | 24 | 2 | 89 | 2 | 385 | 2 | |
| | | dis_other where | A disability or impairment not listed | 0 | 0 | 14 | 1 | 39 | 1 | 170 | 1 | 0 | 0 | 17 | 1 | 56 | 1 | 285 | 1 | |
| | | each student is represented only | More than one disability or impairment | 0 | 0 | 16 | 1 | 53 | 1 | 242 | 1 | 4 | 2 | 24 | 2 | 76 | 2 | 380 | 2 | |
| | | once.) | No disability or impairment | 56 | 93 | 1,028 | 88 | 3,329 | 88 | 14,921 | 88 | 145 | 84 | 1,384 | 89 | 3,969 | 87 | 18,520 | 87 | |
| | | | Prefer not to respond | 1 | 2 | 32 | 3 | 118 | 3 | 543 | 3 | 7 | 4 | 33 | 2 | 126 | 3 | 679 | 3 | |
| | | | Total | 60 | 100 | 1,162 | 100 | 3,779 | 100 | 16,932 | 100 | 173 | 100 | 1,554 | 100 | 4,555 | 100 | 21,307 | 100 | |
| 38. | Which of the following | sexorient17 | Straight (heterosexual) | 56 | 95 | 102 | 90 | 1,976 | 89 | 9,737 | 89 | 149 | 87 | 191 | 88 | 2,279 | 89 | 12,635 | 88 | |
| | best describes your | | Bisexual | 1 | 2 | 6 | 5 | 80 | 4 | 363 | 3 | 3 | 2 | 8 | 4 | 76 | 3 | 430 | 3 | |
| | sexual orientation? | | Gay | 0 | 0 | 1 | 1 | 18 | 1 | 114 | 1 | 5 | 3 | 0 | 0 | 31 | 1 | 176 | 1 | |
| | | | Lesbian | 0 | 0 | 1 | 1 | 9 | 0 | 62 | 1 | 1 | 1 | 0 | 0 | 13 | 1 | 78 | 1 | |
| | | | Queer | 0 | 0 | 0 | 0 | 8 | 0 | 48 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 50 | 0 | |
| | | | Questioning or unsure | 0 | 0 | 1 | 1 | 29 | 1 | 125 | 1 | 0 | 0 | 2 | 1 | 16 | 1 | 96 | 1 | |
| | | | Another sexual orientation | 0 | 0 | 0 | 0 | 29 | 1 | 154 | 1 | 5 | 3 | 5 | 2 | 23 | 1 | 207 | 1 | |
| | | | I prefer not to respond | 2 | 3 | 2 | 2 | 70 | 3 | 365 | 3 | 9 | 5 | 10 | 5 | 105 | 4 | 605 | 4 | |
| | | | Total | 59 | 100 | 113 | 100 | 2,219 | 100 | 10,968 | 100 | 172 | 100 | 216 | 100 | 2,549 | 100 | 14,277 | 100 | |



Respondent Profile: Aero and Engineering

| ro and Engir | neering | | | | First-Y | ear | Students | a | | Seniors ^a | | | | | | | | | |
|--------------------------------|----------------------|-------------------------------------|-------|-----|---------------|------|-------------|-------------|--------|-----------------------------|-------|-----|---------------|------|------------|-----------|--------|----|--|
| | | | | | | | | NSSE 2016 & | | | | | | | | NSSE 2016 | 6 & | | |
| | | | UND | | Plains Public | Plus | Carnegie Cl | lass | 2017 | | UND | | Plains Public | Plus | Carnegie C | lass | 2017 | | |
| Item wording or description | Variable name | Response options | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | Count | % | |
| tution-reported inf | formation | especies species | | | | | | | | | | | | | | | | | |
| ables provided by your ins | stitution in your NS | SE population file.) | | | | | | | | | | | | | | | | | |
| Institution-reported: | IRsex | Female | 15 | 25 | 312 | 26 | 1,176 | 31 | 5,163 | 30 | 35 | 20 | 392 | 25 | 1,293 | 28 | 5,902 | 2 | |
| Sex | | Male | 45 | 75 | 868 | 74 | 2,653 | 69 | 12,005 | 70 | 138 | 80 | 1,180 | 75 | 3,307 | 72 | 15,630 | 7 | |
| | | Total | 60 | 100 | 1,180 | 100 | 3,829 | 100 | 17,168 | 100 | 173 | 100 | 1,572 | 100 | 4,600 | 100 | 21,532 | 10 | |
| Institution-reported: | IRrace | American Indian or Alaska Native | 0 | 0 | 6 | 1 | 17 | 0 | 51 | 0 | 0 | 0 | 4 | 0 | 11 | 0 | 90 | (| |
| Race or ethnicity | | Asian | 0 | 0 | 34 | 3 | 194 | 6 | 1,275 | 8 | 1 | 1 | 60 | 4 | 201 | 5 | 1,537 | | |
| | | Black or African American | 1 | 2 | 34 | 3 | 212 | 6 | 908 | 6 | 4 | 2 | 35 | 2 | 188 | 5 | 801 | | |
| | | Hispanic or Latino | 2 | 3 | 62 | 5 | 359 | 11 | 1,786 | 12 | 8 | 5 | 58 | 4 | 369 | 9 | 1,930 | 1 | |
| | | Native Hawaiian/Other Pac. Islander | 0 | 0 | 0 | 0 | 2 | 0 | 21 | 0 | 1 | 1 | 1 | 0 | 4 | 0 | 23 | | |
| | | White | 56 | 93 | 905 | 77 | 2,153 | 63 | 9,100 | 60 | 150 | 87 | 1,245 | 79 | 2,711 | 67 | 12,278 | 6 | |
| | | Other | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | | |
| | | Foreign or nonresident alien | 0 | 0 | 84 | 7 | 259 | 8 | 1,123 | 7 | 2 | 1 | 90 | 6 | 254 | 6 | 1,077 | | |
| | | Two or more races/ethnicities | 1 | 2 | 28 | 2 | 118 | 3 | 531 | 3 | 4 | 2 | 36 | 2 | 111 | 3 | 555 | | |
| | | Unknown | 0 | 0 | 24 | 2 | 90 | 3 | 448 | 3 | 3 | 2 | 41 | 3 | 177 | 4 | 636 | | |
| | | Total | 60 | 100 | 1,177 | 100 | 3,404 | 100 | 15,247 | 100 | 173 | 100 | 1,570 | 100 | 4,026 | 100 | 18,931 | 10 | |
| Institution-reported: | IRclass | Freshman/First-Year | 60 | 100 | 1,180 | 100 | 3,830 | 100 | 17,170 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Class level | | Sophomore | 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 | | |
| | | Senior | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 173 | 100 | 1,572 | 100 | 4,600 | 100 | 21,532 | 10 | |
| | | Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | Total | 60 | 100 | 1,180 | 100 | 3,830 | 100 | 17,170 | 100 | 173 | 100 | 1,572 | 100 | 4,600 | 100 | 21,532 | 10 | |
| Institution-reported: | IRftfy | Not first-time first-year | 0 | 0 | 84 | 7 | 288 | 8 | 1,532 | 9 | 173 | 100 | 1,557 | 99 | 4,555 | 99 | 21,357 | 9 | |
| First-time first-year | | First-time first-year | 60 | 100 | 1,089 | 93 | 3,535 | 92 | 15,631 | 91 | 0 | 0 | 15 | 1 | 45 | 1 | 175 | | |
| (FTFY) student | | Total | 60 | 100 | 1,173 | 100 | 3,823 | 100 | 17,163 | 100 | 173 | 100 | 1,572 | 100 | 4,600 | 100 | 21,532 | 10 | |
| Institution-reported: | IRenrollment | Not full-time | 0 | 0 | 23 | 2 | 85 | 2 | 676 | 4 | 54 | 31 | 188 | 12 | 512 | 11 | 2,920 | 1 | |
| Enrollment status | | Full-time | 60 | 100 | 1,157 | 98 | 3,745 | 98 | 16,494 | 96 | 119 | 69 | 1,384 | 88 | 4,088 | 89 | 18,612 | 8 | |
| | | Total | 60 | 100 | 1,180 | 100 | 3,830 | 100 | 17,170 | 100 | 173 | 100 | 1,572 | 100 | 4,600 | 100 | 21,532 | 10 | |



Endnotes: Aero and Engineering University of North Dakota

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 +/- 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.
- 1. 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.</p>
- ▼ 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., & Gonyea, R. M. (2015). Contextualizing student engagement effect sizes: An empirical analysis. Paper presented at the Association for Institutional Research Annual Forum, Denver, CO.