
University of North Dakota

NSSE 2015 Major Field Report, Part II

Comparisons to Other Institutions

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

Note:

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

About Your Major Field Report, Part II

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

NSSE results included in MFR, Part II

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

Related-Major Groups

Self-reported majors (first major given if two were reported) were identified from the survey. Your institution had the option to customize how these were grouped, using up to ten related-major groups. Institutions choosing not to customize their related-major groups 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.

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 20 respondents in a given class are not reported (columns are blank). Comparison groups must also contain at least 20 respondents in the major category, or they remain blank. Although 20 is a minimum requirement, 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, the Major Field Report results are unweighted.

Report Sections

Engagement Indicators (pp. 3-7)	Results on NSSE's ten Engagement Indicators (EIs) organized into four themes. See your <i>Engagement Indicators</i> report for more details.
High-Impact Practices (p. 8)	Results on student participation in six High-Impact Practices (HIPs). See your <i>High-Impact Practices</i> report for more details.
Frequencies and Statistical Comparisons (pp. 9-44)	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 (pp. 45-51)	Response frequencies for all demographic questions for your institution and your three core comparison groups.

Engagement Indicators: Overview

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

Use the following key:

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

Theme	Engagement Indicator	First-Year Students in Engineering			Seniors in Engineering		
		Your first-year students compared with Plains Public	Your first-year students compared with Carnegie Class	Your first-year students compared with NSSE 2015	Your seniors compared with Plains Public	Your seniors compared with Carnegie Class	Your seniors compared with NSSE 2015
Academic Challenge	Higher-Order Learning	--	--	--	--	--	--
	Reflective & Integrative Learning	--	--	--	--	--	--
	Learning Strategies	--	--	--	--	--	--
	Quantitative Reasoning	--	--	--	--	--	--
Learning with Peers	Collaborative Learning	--	--	--	▽	▽	▽
	Discussions with Diverse Others	--	--	--	▽	▽	▽
Experiences with Faculty	Student-Faculty Interaction	--	--	--	▽	▽	▽
	Effective Teaching Practices	▽	--	--	--	--	--
Campus Environment	Quality of Interactions	--	--	--	--	--	--
	Supportive Environment	--	--	--	--	--	--

First-year students^a in Engineering

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Academic Challenge												
Higher-Order Learning												
UND (N = 37)	35.5	13.0	2.14	15	25	35	40	60				
Plains Public	38.0	13.3	.75	15	30	40	45	60	352	-2.4		-.184
Carnegie Class	39.1	13.2	.24	20	30	40	50	60	3,017	-3.6		-.272
NSSE 2015	38.6	13.2	.10	20	30	40	50	60	18,245	-3.1		-.233
Reflective & Integrative Learning												
UND (N = 38)	31.4	11.5	1.86	17	23	27	40	57				
Plains Public	32.4	10.9	.61	17	23	31	40	53	357	-1.0		-.090
Carnegie Class	33.7	12.0	.22	14	26	34	40	57	3,080	-2.2		-.187
NSSE 2015	32.6	11.9	.09	14	23	31	40	54	18,679	-1.2		-.102
Learning Strategies												
UND (N = 36)	35.9	15.6	2.59	7	27	33	47	60				
Plains Public	35.1	14.1	.79	13	27	33	40	60	352	.9		.061
Carnegie Class	36.9	14.0	.25	13	27	40	47	60	3,047	-9		-.066
NSSE 2015	36.8	14.0	.10	13	27	40	47	60	18,432	-8		-.060
Quantitative Reasoning												
UND (N = 38)	30.5	15.9	2.57	7	20	33	40	60				
Plains Public	31.4	15.4	.86	7	20	33	40	60	355	-8		-.054
Carnegie Class	32.3	15.4	.28	7	20	33	40	60	3,084	-1.8		-.117
NSSE 2015	31.7	15.4	.11	7	20	33	40	60	18,600	-1.1		-.074
Learning with Peers												
Collaborative Learning												
UND (N = 38)	33.2	14.6	2.37	10	20	30	45	60				
Plains Public	34.7	14.8	.83	10	25	35	45	60	352	-1.5		-.102
Carnegie Class	37.1	13.8	.25	15	25	35	45	60	3,071	-4.0		-.287
NSSE 2015	37.4	13.6	.10	15	25	40	50	60	18,450	-4.3		-.312
Discussions with Diverse Others												
UND (N = 38)	37.5	14.5	2.35	20	25	38	50	60				
Plains Public	38.6	15.2	.85	15	30	40	50	60	357	-1.1		-.073
Carnegie Class	40.3	15.7	.28	15	30	40	55	60	3,074	-2.8		-.179
NSSE 2015	41.3	15.8	.12	15	30	40	60	60	18,532	-3.8		-.240

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Engagement Indicators: Engineering

University of North Dakota

First-year students^a in Engineering

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Experiences with Faculty												
Student-Faculty Interaction												
UND (N = 38)	15.8	12.4	2.01	0	5	13	25	40				
Plains Public	18.6	14.6	.82	0	10	15	25	50	354	-2.8		-.194
Carnegie Class	18.7	14.2	.26	0	10	15	25	50	3,047	-2.9		-.207
NSSE 2015	18.0	14.2	.10	0	5	15	25	45	18,463	-2.2		-.156
Effective Teaching Practices												
UND (N = 38)	34.9	9.7	1.58	20	28	36	40	60				
Plains Public	39.1	12.2	.68	20	32	40	48	60	52	-4.1	*	-.346
Carnegie Class	38.0	12.5	.23	16	28	40	48	60	39	-3.1		-.248
NSSE 2015	38.0	12.7	.09	16	28	40	48	60	37	-3.0		-.239
Campus Environment												
Quality of Interactions												
UND (N = 37)	40.6	9.5	1.56	22	35	42	48	56				
Plains Public	42.0	12.0	.69	20	36	43	50	60	339	-1.3		-.114
Carnegie Class	41.5	11.8	.22	18	34	42	50	60	2,963	-.8		-.068
NSSE 2015	41.6	11.9	.09	20	34	43	50	60	17,281	-1.0		-.081
Supportive Environment												
UND (N = 37)	34.8	12.3	2.03	13	28	35	43	60				
Plains Public	35.1	12.5	.70	15	25	35	43	60	354	-.4		-.029
Carnegie Class	36.8	13.1	.24	15	28	38	45	60	3,064	-2.1		-.156
NSSE 2015	35.8	13.3	.10	14	28	35	45	60	18,581	-1.1		-.081

Seniors^a in Engineering

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Academic Challenge												
Higher-Order Learning												
UND (N = 88)	39.7	12.9	1.37	20	30	40	50	60				
Plains Public	38.9	13.3	.58	20	30	40	50	60	623	.8		.058
Carnegie Class	39.1	13.5	.21	15	30	40	50	60	4,411	.6		.046
NSSE 2015	38.9	13.5	.09	15	30	40	50	60	21,338	.8		.063
Reflective & Integrative Learning												
UND (N = 93)	30.8	12.2	1.26	11	23	31	37	54				
Plains Public	32.7	11.3	.48	17	26	31	40	54	638	-1.9		-.170
Carnegie Class	32.6	12.1	.18	14	23	31	40	54	4,513	-1.9		-.154
NSSE 2015	32.5	12.1	.08	14	23	31	40	54	21,834	-1.7		-.144
Learning Strategies												
UND (N = 91)	36.7	15.0	1.57	13	27	33	53	60				
Plains Public	35.6	15.0	.64	13	27	33	47	60	633	1.2		.077
Carnegie Class	35.5	14.9	.23	13	27	33	47	60	4,452	1.2		.083
NSSE 2015	35.4	14.9	.10	13	27	33	47	60	21,604	1.3		.090
Quantitative Reasoning												
UND (N = 93)	38.0	14.2	1.47	20	27	40	47	60				
Plains Public	39.0	15.1	.64	13	27	40	53	60	639	-1.0		-.068
Carnegie Class	37.4	15.8	.24	13	27	40	47	60	4,506	.6		.037
NSSE 2015	37.0	15.6	.11	13	27	40	47	60	21,829	1.0		.064
Learning with Peers												
Collaborative Learning												
UND (N = 92)	31.5	17.8	1.86	0	18	35	43	60				
Plains Public	38.9	14.1	.60	15	30	40	50	60	111	-7.4	***	-.506
Carnegie Class	39.9	14.0	.21	15	30	40	50	60	93	-8.4	***	-.595
NSSE 2015	40.0	13.6	.09	20	30	40	50	60	91	-8.5	***	-.622
Discussions with Diverse Others												
UND (N = 90)	33.5	18.0	1.90	0	20	35	45	60				
Plains Public	39.5	16.1	.69	13	25	40	55	60	628	-6.0	**	-.368
Carnegie Class	41.2	16.2	.25	15	30	40	60	60	4,471	-7.7	***	-.474
NSSE 2015	41.6	16.3	.11	15	30	40	60	60	21,695	-8.1	***	-.497

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Engagement Indicators: Engineering

University of North Dakota

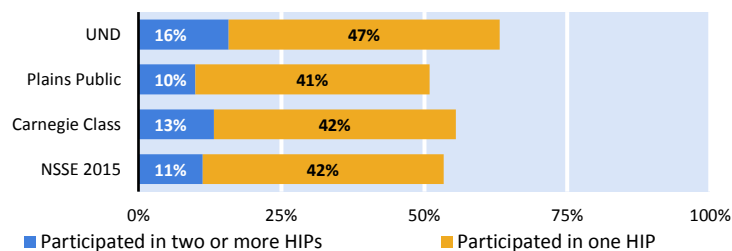
Seniors^a in Engineering

	Mean statistics			Percentile ^d scores					Comparison results			
	Mean	SD ^b	SEM ^c	5th	25th	50th	75th	95th	Deg. of freedom ^e	Mean diff.	Sig. ^f	Effect size ^g
Experiences with Faculty												
Student-Faculty Interaction												
UND (N = 93)	15.2	13.3	1.38	0	5	15	25	35				
Plains Public	24.9	15.4	.66	0	15	20	35	55	137	-9.7	***	-.642
Carnegie Class	22.9	15.4	.23	0	10	20	35	55	97	-7.6	***	-.498
NSSE 2015	22.7	15.6	.11	0	10	20	35	55	93	-7.5	***	-.481
Effective Teaching Practices												
UND (N = 93)	37.8	12.5	1.30	16	30	36	48	60				
Plains Public	38.0	12.8	.55	16	28	40	48	60	641	-.2		-.015
Carnegie Class	36.6	13.5	.20	12	28	36	44	60	4,532	1.2		.088
NSSE 2015	37.1	13.3	.09	16	28	36	48	60	21,952	.7		.053
Campus Environment												
Quality of Interactions												
UND (N = 79)	40.9	10.2	1.15	25	33	40	48	56				
Plains Public	41.5	11.2	.49	20	34	42	50	60	603	-.6		-.052
Carnegie Class	40.9	11.7	.18	20	34	42	50	60	4,374	.0		-.001
NSSE 2015	41.1	11.6	.08	20	34	42	50	60	20,889	-.2		-.018
Supportive Environment												
UND (N = 90)	29.3	12.0	1.26	8	20	33	38	48				
Plains Public	30.6	13.3	.57	10	20	30	40	53	635	-1.3		-.096
Carnegie Class	31.2	13.7	.21	10	20	30	40	55	94	-1.9		-.140
NSSE 2015	30.9	13.9	.09	8	20	30	40	57	90	-1.6		-.114

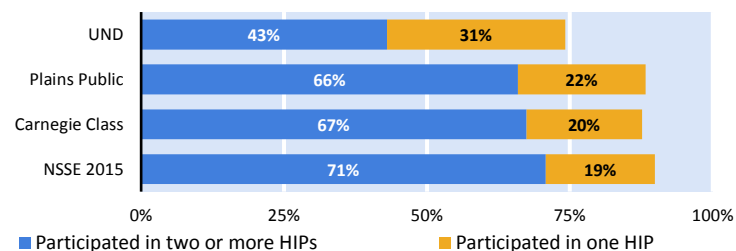
Overall HIP Participation^a

The figures below display the percentage^h of students who participated in High-Impact Practices. Both figures include participation in a learning community, service-learning, 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 of students who participated in at least two HIPs, and the full bar (both colors) represents the percentage who participated in at least one.

First-Year Students in Engineering



Seniors in Engineering



Statistical Comparisons^a

The table below compares the percentage^h of your students who participated in a High-Impact Practice, including the percentage who participated overall (at least one, two or more), with those at institutions in your comparison groups.

	UND		Plains Public		Carnegie Class		NSSE 2015	
	%		% ⁱ	Effect size ^j	% ⁱ	Effect size ^j	% ⁱ	Effect size ^j
<i>First-Year Students in Engineering</i>								
11c. Learning community	26		17	.24	21	.12	17	.24
12. Service-learning	50		41	.18	43	.13	45	.11
11e. Research with faculty	5		5	.03	6	-.03	6	-.01
Participated in at least one	63		51	.25	55	.16	53	.20
Participated in two or more	16		10	.18	13	.07	11	.13
<i>Seniors in Engineering</i>								
11c. Learning community	23		29	-.14	28	-.11	27	-.09
12. Service-learning	36		45	-.19	45	-.19	45	-.20
11e. Research with faculty	17		32 **	-.35	32 **	-.35	34 ***	-.39
11a. Internship or field exp.	42		58 **	-.32	57 **	-.29	61 ***	-.38
11d. Study abroad	11		10	.02	11	-.01	11	-.01
11f. Culminating senior exp.	40		49	-.18	57 **	-.33	61 ***	-.41
Participated in at least one	74		88 ***	-.37	88 ***	-.35	90 ***	-.42
Participated in two or more	43		66 ***	-.46	67 ***	-.50	71 ***	-.57

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Frequencies and Statistical Comparisons: Engineering

University of North Dakota

First-Year Students^a in Engineering

Item wording or description				Frequency Distributions								Statistical Comparisons ^k																	
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015											
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ											
1. During the current school year, about how often have you done the following?																													
a. Asked questions or contributed to course discussions in other ways				askquest		1 Never		2 Sometimes		3 Often		4 Very often		Total		2.7		2.7		-.02		2.7		-.05		2.7		.00	
b. Prepared two or more drafts of a paper or assignment before turning it in				drafts		1 Never		2 Sometimes		3 Often		4 Very often		Total		2.8		2.3 ***		.57		2.4 **		.45		2.3 **		.51	
c. Come to class without completing readings or assignments				unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i>		1 Very often		2 Often		3 Sometimes		4 Never		Total		3.1		3.1		.09		3.0		.20		3.0		.22	
d. Attended an art exhibit, play or other arts performance (dance, music, etc.)				attendart		1 Never		2 Sometimes		3 Often		4 Very often		Total		1.7		1.7		-.01		1.8		-.16		1.8		-.10	
e. Asked another student to help you understand course material				CLaskhelp		1 Never		2 Sometimes		3 Often		4 Very often		Total		2.6		2.7		-.14		2.8		-.26		2.8		-.27	
f. Explained course material to one or more students				CLexplain		1 Never		2 Sometimes		3 Often		4 Very often		Total		2.8		2.9		-.06		2.9		-.15		2.9		-.16	

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Frequencies and Statistical Comparisons: Engineering

University of North Dakota

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
												Your first-year students compared with							
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
g. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	4	11	47	15	300	10	1,704	9	2.6	2.6	.01	2.8	-.15	2.8	-.16	
		2	Sometimes	16	42	105	33	944	31	5,775	31								
		3	Often	8	21	93	29	970	32	6,093	33								
		4	Very often	10	26	77	24	851	28	5,117	27								
		Total		38	100	322	100	3,065	100	18,689	100								
h. Worked with other students on course projects or assignments	CLproject	1	Never	3	8	26	8	105	3	672	4	2.6	2.7	-.14	2.9 *	-.38	2.9 *	-.40	
		2	Sometimes	18	47	113	35	934	30	5,471	29								
		3	Often	9	24	115	36	1,213	40	7,302	39								
		4	Very often	8	21	69	21	816	27	5,243	28								
		Total		38	100	323	100	3,068	100	18,688	100								
i. Given a course presentation	present	1	Never	16	42	106	33	670	22	4,556	24	1.7	2.0	-.29	2.1 **	-.48	2.1 **	-.43	
		2	Sometimes	17	45	133	41	1,514	50	8,898	48								
		3	Often	4	11	62	19	617	20	3,791	20								
		4	Very often	1	3	21	7	255	8	1,398	7								
		Total		38	100	322	100	3,056	100	18,643	100								
2. During the current school year, about how often have you done the following?																			
a. Combined ideas from different courses when completing assignments	RIintegrate	1	Never	1	3	16	5	160	5	964	5	2.6	2.7	-.13	2.7	-.13	2.7	-.11	
		2	Sometimes	18	47	117	36	1,177	39	7,365	39								
		3	Often	15	39	143	44	1,182	39	7,229	39								
		4	Very often	4	11	46	14	535	18	3,130	17								
		Total		38	100	322	100	3,054	100	18,688	100								
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	6	16	49	15	360	12	2,429	13	2.4	2.3	.05	2.4	-.06	2.4	-.02	
		2	Sometimes	17	45	152	47	1,410	46	8,707	47								
		3	Often	10	26	86	27	907	30	5,361	29								
		4	Very often	5	13	34	11	364	12	2,083	11								
		Total		38	100	321	100	3,041	100	18,580	100								
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIDiverse	1	Never	8	21	71	22	515	17	4,342	23	2.1	2.2	-.05	2.3	-.22	2.2	-.08	
		2	Sometimes	20	53	148	46	1,364	45	7,965	43								
		3	Often	7	18	78	24	819	27	4,530	24								
		4	Very often	3	8	25	8	342	11	1,766	9								
		Total		38	100	322	100	3,040	100	18,603	100								

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Frequencies and Statistical Comparisons: Engineering

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First-Year Students^a in Engineering

Item wording or description				Variable name ^l				Frequency Distributions				Statistical Comparisons ^k												
								UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015		
								Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
d. Examined the strengths and weaknesses of your own views on a topic or issue				RIownview				1	Never	3	8	18	6	186	6	1,471	8	2.6	2.6	.01	2.7	-.08	2.6	.00
								2	Sometimes	15	39	125	39	1,077	35	6,852	37							
								3	Often	13	34	133	42	1,235	41	7,317	39							
								4	Very often	7	18	42	13	536	18	2,926	16							
								Total		38	100	318	100	3,034	100	18,566	100							
e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective				RIperspect				1	Never	0	0	17	5	146	5	1,114	6	2.8	2.7	.04	2.8	-.06	2.7	.03
								2	Sometimes	16	42	111	35	961	32	6,277	34							
								3	Often	15	39	133	42	1,240	41	7,535	41							
								4	Very often	7	18	58	18	690	23	3,655	20							
								Total		38	100	319	100	3,037	100	18,581	100							
f. Learned something that changed the way you understand an issue or concept				RInewview				1	Never	1	3	6	2	117	4	681	4	2.7	2.8	-.15	2.8	-.16	2.8	-.15
								2	Sometimes	16	42	113	35	1,014	33	6,301	34							
								3	Often	16	42	149	47	1,301	43	8,027	43							
								4	Very often	5	13	52	16	605	20	3,562	19							
								Total		38	100	320	100	3,037	100	18,571	100							
g. Connected ideas from your courses to your prior experiences and knowledge				RIconnect				1	Never	0	0	3	1	51	2	345	2	2.9	3.0	-.21	3.1	-.25	3.0	-.20
								2	Sometimes	11	29	75	24	666	22	4,272	23							
								3	Often	21	55	150	47	1,376	45	8,503	46							
								4	Very often	6	16	88	28	941	31	5,418	29							
								Total		38	100	316	100	3,034	100	18,538	100							
3. During the current school year, about how often have you done the following?																								
a. Talked about career plans with a faculty member				SFcareer				1	Never	18	47	82	26	812	27	5,729	31	1.8	2.1 *	-0.38	2.1 *	-0.35	2.0	-0.29
								2	Sometimes	13	34	156	49	1,469	48	8,275	44							
								3	Often	5	13	51	16	544	18	3,162	17							
								4	Very often	2	5	32	10	225	7	1,460	8							
								Total		38	100	321	100	3,050	100	18,626	100							
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)				SFotherwork				1	Never	19	50	177	55	1,606	53	10,327	56	1.7	1.7	.02	1.7	-.02	1.7	.03
								2	Sometimes	13	34	87	27	906	30	5,247	28							
								3	Often	5	13	41	13	344	11	2,027	11							
								4	Very often	1	3	15	5	183	6	976	5							
								Total		38	100	320	100	3,039	100	18,577	100							

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				Frequency Distributions								Statistical Comparisons ^k							
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	17	45	105	33	974	32	6,094	33	1.8	2.0	-.23	2.0	-.26	2.0	-.24	
		2	Sometimes	14	37	143	45	1,338	44	8,098	44								
		3	Often	6	16	51	16	508	17	3,144	17								
		4	Very often	1	3	21	7	218	7	1,252	7								
		Total		38	100	320	100	3,038	100	18,588	100								
d. Discussed your academic performance with a faculty member	SFperform	1	Never	11	29	95	30	910	30	6,139	33	1.9	2.0	-.05	2.0	-.06	2.0	-.01	
		2	Sometimes	19	50	156	49	1,436	47	8,260	45								
		3	Often	7	18	45	14	474	16	2,964	16								
		4	Very often	1	3	24	8	213	7	1,180	6								
		Total		38	100	320	100	3,033	100	18,543	100								
4. During the current school year, how much has your coursework emphasized the following?																			
a. Memorizing course material	memorize	1	Very little	0	0	6	2	123	4	975	5	2.8	2.9	-.13	2.9	-.06	2.8	.04	
		2	Some	13	35	89	28	841	27	5,614	30								
		3	Quite a bit	17	46	146	45	1,364	45	8,074	43								
		4	Very much	7	19	80	25	731	24	3,991	21								
		Total		37	100	321	100	3,059	100	18,654	100								
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	1	3	5	2	60	2	385	2	2.9	3.2	-.31	3.2 *	-.34	3.2 *	-.38	
		2	Some	9	24	56	17	495	16	2,797	15								
		3	Quite a bit	20	53	143	45	1,320	43	7,824	42								
		4	Very much	8	21	117	36	1,175	39	7,590	41								
		Total		38	100	321	100	3,050	100	18,596	100								
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	2	5	16	5	98	3	755	4	2.9	3.0	-.07	3.0	-.18	3.0	-.15	
		2	Some	9	24	69	22	670	22	4,113	22								
		3	Quite a bit	18	47	148	46	1,272	42	7,735	42								
		4	Very much	9	24	87	27	991	33	5,945	32								
		Total		38	100	320	100	3,031	100	18,548	100								
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	3	8	28	9	220	7	1,930	10	2.7	2.7	-.05	2.7	-.10	2.7	.00	
		2	Some	13	34	99	31	991	33	6,065	33								
		3	Quite a bit	16	42	134	42	1,182	39	6,912	37								
		4	Very much	6	16	59	18	653	21	3,653	20								
		Total		38	100	320	100	3,046	100	18,560	100								

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				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
5. During the current school year, to what extent have your instructors done the following?																			
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	4	11	22	7	160	5	1,180	6	2.7	2.8	-0.07	2.9	-0.15	2.8	-0.10	
		2	Some	9	24	97	30	873	29	5,363	29								
		3	Quite a bit	17	46	129	40	1,249	41	7,632	41								
		4	Very much	7	19	74	23	760	25	4,372	24								
		Total		37	100	322	100	3,042	100	18,547	100								
a. Clearly explained course goals and requirements	ETgoals	1	Very little	0	0	4	1	67	2	400	2	2.8	3.1 *	-0.42	3.1 *	-0.35	3.1 *	-0.35	
		2	Some	15	39	58	18	624	20	3,744	20								
		3	Quite a bit	16	42	164	51	1,443	47	8,909	48								
		4	Very much	7	18	95	30	932	30	5,661	30								
		Total		38	100	321	100	3,066	100	18,714	100								
b. Taught course sessions in an organized way	ETorganize	1	Very little	1	3	5	2	73	2	435	2	3.0	3.1	-0.21	3.0	-0.09	3.1	-0.13	
		2	Some	6	16	53	17	605	20	3,439	18								
		3	Quite a bit	24	63	158	49	1,507	49	9,213	49								
		4	Very much	7	18	104	33	875	29	5,582	30								
		Total		38	100	320	100	3,060	100	18,669	100								
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	0	0	8	3	95	3	509	3	2.9	3.1	-0.27	3.1	-0.18	3.1	-0.22	
		2	Some	10	26	58	18	621	20	3,632	20								
		3	Quite a bit	21	55	136	43	1,315	43	8,026	43								
		4	Very much	7	18	117	37	1,020	33	6,453	35								
		Total		38	100	319	100	3,051	100	18,620	100								
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	2	5	37	12	297	10	2,360	13	2.5	2.7	-0.14	2.7	-0.18	2.6	-0.09	
		2	Some	17	45	106	33	1,006	33	6,274	34								
		3	Quite a bit	16	42	108	34	1,097	36	6,301	34								
		4	Very much	3	8	70	22	646	21	3,713	20								
		Total		38	100	321	100	3,046	100	18,648	100								
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	3	8	26	8	281	9	1,826	10	2.5	2.8	-0.26	2.7	-0.15	2.7	-0.15	
		2	Some	15	39	96	30	1,044	34	6,286	34								
		3	Quite a bit	17	45	126	39	1,150	38	6,908	37								
		4	Very much	3	8	71	22	571	19	3,583	19								
		Total		38	100	319	100	3,046	100	18,603	100								

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				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
				Count		Count		Count		Count		Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
Item wording or description	Variable name ^l	Values ^m	Response options		%		%		%		%								
6. During the current school year, about how often have you done the following?																			
a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	QRconclude	1	Never	2	5	18	6	147	5	1,012	5	2.9	2.9	-.07	2.9	-.08	2.9	-.04	
		2	Sometimes	11	29	83	26	802	26	4,908	26								
		3	Often	15	39	122	38	1,221	40	7,622	41								
		4	Very often	10	26	98	31	895	29	5,176	28								
			Total	38	100	321	100	3,065	100	18,718	100								
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	8	21	62	19	515	17	3,532	19	2.4	2.4	-.01	2.4	-.08	2.4	-.03	
		2	Sometimes	13	34	125	39	1,174	38	7,056	38								
		3	Often	12	32	83	26	892	29	5,213	28								
		4	Very often	5	13	50	16	487	16	2,886	15								
			Total	38	100	320	100	3,068	100	18,687	100								
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	9	24	49	15	409	13	2,742	15	2.3	2.4	-.05	2.5	-.15	2.4	-.11	
		2	Sometimes	12	32	142	44	1,226	40	7,495	40								
		3	Often	12	32	88	27	984	32	5,782	31								
		4	Very often	5	13	43	13	443	14	2,622	14								
			Total	38	100	322	100	3,062	100	18,641	100								
7. During the current school year, about how many papers, reports, or other writing tasks of the following length have you been assigned? (Include those not yet completed.)																			
a. Up to 5 pages	wrshortnum	0	None	3	9	25	8	155	5	1,243	7	4.1	6.3 ***	-.37	6.4 ***	-.40	6.4 ***	-.39	
		1.5	1-2	6	18	80	25	640	21	3,995	22								
	(Recorded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.)	4	3-5	17	50	91	29	1,006	33	5,703	31								
		8	6-10	8	24	57	18	696	23	4,060	22								
		13	11-15	0	0	27	9	277	9	1,648	9								
		18	16-20	0	0	16	5	112	4	709	4								
		23	More than 20	0	0	18	6	131	4	950	5								
			Total	34	100	314	100	3,017	100	18,308	100								
b. Between 6 and 10 pages	wrmednum	0	None	12	33	135	44	967	33	5,643	32	2.2	2.0	.05	2.3	-.03	2.5	-.09	
		1.5	1-2	14	39	116	38	1,248	42	7,124	40								
	(Recorded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.)	4	3-5	7	19	32	10	447	15	3,147	18								
		8	6-10	2	6	13	4	187	6	1,255	7								
		13	11-15	1	3	7	2	57	2	402	2								
		18	16-20	0	0	4	1	13	0	139	1								
		23	More than 20	0	0	2	1	23	1	144	1								
			Total	36	100	309	100	2,942	100	17,854	100								

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				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
												Your first-year students compared with							
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
c. 11 pages or more	wrlongnum	0	None	29	88	253	84	2,073	73	11,490	66	.3	.6	-.11	.9	-.21	1.2 ***	▽	-.30
	(Recoded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	2	6	35	12	556	20	3,872	22								
	4	3-5	2	6	4	1	97	3	1,078	6									
	8	6-10	0	0	3	1	59	2	503	3									
	13	11-15	0	0	2	1	22	1	241	1									
	18	16-20	0	0	1	0	10	0	84	0									
	23	More than 20	0	0	2	1	17	1	127	1									
	Total			33	100	300	100	2,834	100	17,395	100								
Estimated number of assigned pages of student writing.	wpages		(Continuous variable, recoded and summed by NSSE from wrshort, wrmed, and wrlong. Values are estimated pages of assigned writing.)									27.6	40.1 *	-.25	49.0 ***	-.34	55.4 ***	-.40	
8. During the current school year, about how often have you had discussions with people from the following groups?																			
a. People of a race or ethnicity other than your own	DDrace	1	Never	2	5	19	6	183	6	886	5	2.7	2.9	-.16	3.0 *	-.32	3.1 **	▽	-.46
		2	Sometimes	14	37	106	33	789	26	4,107	22								
		3	Often	15	39	98	30	903	29	5,464	29								
		4	Very often	7	18	99	31	1,191	39	8,255	44								
			Total	38	100	322	100	3,066	100	18,712	100								
b. People from an economic background other than your own	DDeconomic	1	Never	1	3	16	5	130	4	837	4	2.9	3.0	-.04	3.1	-.18	3.1	▽	-.19
		2	Sometimes	12	32	81	25	666	22	3,997	21								
		3	Often	14	37	126	39	1,099	36	6,457	35								
		4	Very often	11	29	99	31	1,169	38	7,375	40								
			Total	38	100	322	100	3,064	100	18,666	100								
c. People with religious beliefs other than your own	DDreligion	1	Never	1	3	17	5	211	7	1,163	6	2.8	2.9	-.11	3.0	-.16	3.1	▽	-.23
		2	Sometimes	13	34	87	27	746	24	4,236	23								
		3	Often	15	39	116	36	947	31	5,656	30								
		4	Very often	9	24	102	32	1,162	38	7,618	41								
			Total	38	100	322	100	3,066	100	18,673	100								
d. People with political views other than your own	DDpolitical	1	Never	0	0	20	6	206	7	1,278	7	3.0	3.0	.07	3.0	.06	3.0	▽	.05
		2	Sometimes	14	37	77	24	746	24	4,533	24								
		3	Often	9	24	119	37	1,026	34	6,065	33								
		4	Very often	15	39	105	33	1,068	35	6,703	36								
			Total	38	100	321	100	3,046	100	18,579	100								

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				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
9. During the current school year, about how often have you done the following?																			
a. Identified key information from reading assignments	LSreading	1	Never	0	0	9	3	82	3	615	3	2.8	2.9	-.04	3.0	-.18	3.0	-.17	
		2	Sometimes	13	34	99	31	742	24	4,418	24								
		3	Often	18	47	138	43	1,377	45	8,298	44								
		4	Very often	7	18	76	24	857	28	5,340	29								
		Total		38	100	322	100	3,058	100	18,671	100								
b. Reviewed your notes after class	LSnotes	1	Never	4	11	23	7	174	6	1,134	6	2.8	2.8	.09	2.8	.00	2.8	.03	
		2	Sometimes	8	22	108	34	985	32	6,198	33								
		3	Often	15	41	113	35	1,051	34	6,382	34								
		4	Very often	10	27	76	24	842	28	4,927	26								
		Total		37	100	320	100	3,052	100	18,641	100								
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	5	14	30	9	249	8	1,531	8	2.7	2.6	.08	2.7	-.01	2.7	-.03	
		2	Sometimes	10	28	119	37	1,047	35	6,233	34								
		3	Often	12	33	111	35	1,085	36	6,564	35								
		4	Very often	9	25	59	18	650	21	4,170	23								
		Total		36	100	319	100	3,031	100	18,498	100								
10. During the current school year, to what extent have your courses challenged you to do your best work?																			
challenge		1	Not at all	0	0	1	0	12	0	97	1	5.5	5.5	.07	5.6	-.07	5.6	-.05	
		2		0	0	4	1	33	1	227	1								
		3		1	3	9	3	97	3	578	3								
		4		3	8	31	10	278	9	1,757	9								
		5		13	34	125	39	874	29	5,371	29								
		6		17	45	94	29	1,055	34	6,340	34								
		7	Very much	4	11	58	18	711	23	4,319	23								
		Total		38	100	322	100	3,060	100	18,689	100								
11. Which of the following have you done or do you plan to do before you graduate?^o																			
a. Participate in an internship, co-op, field experience, student teaching, or clinical placement	intern	Have not decided		2	5	21	7	184	6	1,263	7	3%	5%	-.11	8%	-.26	11%	-.35	
		Do not plan to do		2	5	14	4	56	2	561	3								
		Plan to do		33	87	272	84	2,574	84	14,870	79								
		Done or in progress		1	3	15	5	257	8	2,035	11								
		Total		38	100	322	100	3,071	100	18,729	100								

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			UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
b. Hold a formal leadership role in a student organization or group	leader	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	10	26	103	32	872	28	5,042	27	11%	11%	-.03	12%	-.05	11%	-.03
			Do not plan to do	15	39	82	25	605	20	4,148	22							
			Plan to do	9	24	100	31	1,221	40	7,372	39							
			Done or in progress	4	11	37	11	369	12	2,113	11							
			Total	38	100	322	100	3,067	100	18,675	100							
c. Participate in a learning community or some other formal program where groups of students take two or more classes together	learncom	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	8	21	92	29	801	26	5,562	30	26%	17%	.24	21%	.12	17%	.24
			Do not plan to do	13	34	100	31	914	30	5,519	30							
			Plan to do	7	18	76	24	694	23	4,498	24							
			Done or in progress	10	26	53	17	649	21	3,081	17							
			Total	38	100	321	100	3,058	100	18,660	100							
d. Participate in a study abroad program	abroad	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	9	24	98	31	936	31	5,576	30	0%	4%	-.42	3%	-.35	3%	-.37
			Do not plan to do	19	50	116	36	929	30	5,923	32							
			Plan to do	10	26	91	29	1,105	36	6,544	35							
			Done or in progress	0	0	14	4	95	3	620	3							
			Total	38	100	319	100	3,065	100	18,663	100							
e. Work with a faculty member on a research project	research	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	12	32	117	37	1,094	36	6,612	36	5%	5%	.03	6%	-.03	6%	-.01
			Do not plan to do	8	22	48	15	368	12	2,593	14							
			Plan to do	15	41	137	43	1,404	46	8,361	45							
			Done or in progress	2	5	15	5	184	6	1,051	6							
			Total	37	100	317	100	3,050	100	18,617	100							
f. Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)	capstone	(Means indicate the percentage who responded "Done or in progress.")	Have not decided	4	11	84	26	741	24	4,424	24	3%	3%	-.01	2%	.02	3%	.01
			Do not plan to do	2	5	28	9	172	6	1,398	8							
			Plan to do	31	82	198	62	2,064	68	12,329	66							
			Done or in progress	1	3	9	3	71	2	472	3							
			Total	38	100	319	100	3,048	100	18,623	100							

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

servcourse	1	2	3	4	Total	UND	Plains Public	Carnegie Class	NSSE 2015	Mean	Effect size ⁿ
None	19	50	186	59	1,720	57	10,210	55	1.6	1.5	.16
Some	15	39	112	35	1,147	38	7,092	38			
Most	4	11	10	3	148	5	980	5			
All	0	0	8	3	21	1	183	1			
Total	38	100	316	100	3,036	100	18,465	100			

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
13. Indicate the quality of your interactions with the following people at your institution.																			
a. Students	QIstudent	1	Poor	0	0	5	2	37	1	199	1	5.8	5.5	.25	5.6	.15	5.7	.12	
		2		0	0	6	2	48	2	301	2								
		3		0	0	11	3	108	4	677	4								
		4		2	5	35	11	260	8	1,573	8								
		5		12	32	88	27	717	23	4,217	22								
		6		13	34	90	28	1,031	34	6,103	33								
	7	Excellent	10	26	85	26	863	28	5,612	30									
	—	Not applicable	1	3	1	0	10	0	78	0									
		Total		38	100	321	100	3,074	100	18,760	100								
b. Academic advisors	QIadvisor	1	Poor	3	8	8	2	117	4	710	4	4.6	5.2 *	▼	-.41	5.0	-.28	5.0	-.29
		2		3	8	12	4	169	6	929	5								
		3		5	14	28	9	265	9	1,467	8								
		4		6	16	50	16	435	14	2,543	14								
		5		8	22	55	17	619	20	3,662	20								
		6		3	8	72	22	679	22	3,995	21								
	7	Excellent	9	24	89	28	698	23	3,958	21									
	—	Not applicable	0	0	7	2	84	3	1,452	8									
		Total		37	100	321	100	3,066	100	18,716	100								
c. Faculty	QIfaculty	1	Poor	0	0	6	2	55	2	420	2	4.9	5.1	-.17	5.2	-.22	5.2	-.21	
		2		0	0	11	3	106	3	624	3								
		3		5	13	20	6	203	7	1,203	6								
		4		8	21	61	19	428	14	2,717	15								
		5		15	39	79	25	873	29	4,951	27								
		6		5	13	88	28	841	27	5,107	27								
	7	Excellent	4	11	51	16	522	17	3,264	18									
	—	Not applicable	1	3	2	1	32	1	348	2									
		Total		38	100	318	100	3,060	100	18,634	100								

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ		
d. Student services staff (career services, student activities, housing, etc.)	QIstaff	1	Poor	1	3	11	3	121	4	723	4	5.1	5.0	.05	5.0	.08	5.0	.05	
		2		0	0	19	6	158	5	820	4								
		3		3	8	13	4	218	7	1,277	7								
		4		7	18	48	15	409	13	2,520	13								
		5		8	21	64	20	664	22	3,904	21								
		6		12	32	74	23	718	24	4,197	22								
		7	Excellent	4	11	52	16	490	16	3,105	17								
		—	Not applicable	3	8	38	12	277	9	2,130	11								
	Total	38	100	319	100	3,055	100	18,676	100										
e. Other administrative staff and offices (registrar, financial aid, etc.)	QIadmin	1	Poor	1	3	12	4	129	4	774	4	4.9	5.1	-.07	4.9	.05	4.9	.03	
		2		1	3	15	5	170	6	971	5								
		3		3	8	21	7	232	8	1,414	8								
		4		7	18	42	13	446	15	2,683	14								
		5		12	32	61	19	689	23	4,010	21								
		6		8	21	69	22	668	22	3,970	21								
		7	Excellent	5	13	62	19	452	15	2,880	15								
		—	Not applicable	1	3	38	12	267	9	1,952	10								
	Total	38	100	320	100	3,053	100	18,654	100										
14. How much does your institution emphasize the following?																			
a. Spending significant amounts of time studying and on academic work	empstudy	1	Very little	0	0	5	2	38	1	221	1	3.2	3.2	-.03	3.3	-.12	3.3	-.16	
		2	Some	5	14	45	14	383	13	2,190	12								
		3	Quite a bit	20	54	147	46	1,326	44	7,911	42								
		4	Very much	12	32	121	38	1,295	43	8,294	45								
			Total	37	100	318	100	3,042	100	18,616	100								
b. Providing support to help students succeed academically	SEacademic	1	Very little	1	3	14	4	101	3	590	3	3.0	3.0	-.05	3.1	-.22	3.1	-.18	
		2	Some	7	19	70	22	510	17	3,307	18								
		3	Quite a bit	21	57	131	41	1,259	42	7,920	43								
		4	Very much	8	22	103	32	1,162	38	6,726	36								
			Total	37	100	318	100	3,032	100	18,543	100								
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	1	3	15	5	123	4	900	5	3.0	3.1	-.12	3.2	-.25	3.1	-.16	
		2	Some	11	30	58	18	468	15	3,317	18								
		3	Quite a bit	13	35	132	42	1,168	39	7,130	38								
		4	Very much	12	32	113	36	1,272	42	7,181	39								
			Total	37	100	318	100	3,031	100	18,528	100								

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1	Very little	6	16	46	14	380	13	2,471	13	2.4	2.6	-.21	2.7	-.29	2.6	-.27	
		2	Some	17	46	104	33	978	32	5,835	31								
		3	Quite a bit	8	22	108	34	971	32	6,114	33								
		4	Very much	6	16	61	19	706	23	4,153	22								
		Total		37	100	319	100	3,035	100	18,573	100								
e. Providing opportunities to be involved socially	SEsocial	1	Very little	3	8	15	5	145	5	1,147	6	2.8	3.0	-.14	3.0	-.20	2.9	-.10	
		2	Some	8	22	70	22	671	22	4,452	24								
		3	Quite a bit	18	49	147	46	1,244	41	7,569	41								
		4	Very much	8	22	85	27	978	32	5,399	29								
		Total		37	100	317	100	3,038	100	18,567	100								
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	3	8	13	4	185	6	1,173	6	2.9	2.9	-.04	3.0	-.14	2.9	-.09	
		2	Some	8	22	87	27	631	21	4,232	23								
		3	Quite a bit	17	46	136	43	1,262	42	7,584	41								
		4	Very much	9	24	81	26	954	31	5,554	30								
		Total		37	100	317	100	3,032	100	18,543	100								
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	5	14	76	24	640	21	4,022	22	2.4	2.3	.10	2.4	-.01	2.3	.03	
		2	Some	18	49	115	36	1,118	37	6,914	37								
		3	Quite a bit	10	27	93	29	831	27	5,090	27								
		4	Very much	4	11	33	10	445	15	2,491	13								
		Total		37	100	317	100	3,034	100	18,517	100								
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	0	0	17	5	212	7	1,617	9	3.0	2.8	.23	2.9	.15	2.8	.25	
		2	Some	12	32	88	28	744	25	5,090	28								
		3	Quite a bit	12	32	144	45	1,216	40	7,180	39								
		4	Very much	13	35	70	22	850	28	4,611	25								
		Total		37	100	319	100	3,022	100	18,498	100								
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	4	11	47	15	465	15	3,032	16	2.5	2.4	.04	2.5	-.02	2.5	.01	
		2	Some	16	44	124	39	1,103	37	6,704	36								
		3	Quite a bit	11	31	107	34	956	32	5,824	32								
		4	Very much	5	14	40	13	496	16	2,906	16								
		Total		36	100	318	100	3,020	100	18,466	100								

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
												Mean		Effect size ⁿ		Effect size ⁿ			
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
15. About how many hours do you spend in a typical 7-day week doing the following?																			
a. Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)	tmprephrs	0	0 hrs	0	0	1	0	13	0	110	1	14.1	16.3	-.27	16.7	-.30	17.4 *	▼	-.37
	(Recoded version of tmprep created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	4	11	29	9	298	10	1,714	9								
		8	6-10 hrs	10	26	57	18	565	19	3,067	16								
		13	11-15 hrs	9	24	74	23	582	19	3,547	19								
		18	16-20 hrs	9	24	62	19	591	19	3,552	19								
		23	21-25 hrs	2	5	49	15	450	15	2,647	14								
		28	26-30 hrs	3	8	24	7	247	8	1,696	9								
		33	More than 30 hrs	1	3	25	8	307	10	2,318	12								
			Total	38	100	321	100	3,053	100	18,651	100								
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcocurrhrs	0	0 hrs	7	18	84	27	828	27	5,488	30	5.6	5.6	.00	5.8	-.02	5.5	.01	
	(Recoded version of tmcocurr created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	19	50	126	40	1,103	36	6,584	36								
		8	6-10 hrs	6	16	53	17	559	18	3,197	17								
		13	11-15 hrs	2	5	22	7	259	9	1,570	8								
		18	16-20 hrs	3	8	18	6	156	5	938	5								
		23	21-25 hrs	0	0	4	1	56	2	372	2								
		28	26-30 hrs	1	3	2	1	27	1	145	1								
		33	More than 30 hrs	0	0	6	2	45	1	229	1								
			Total	38	100	315	100	3,033	100	18,523	100								
c. Working for pay on campus	tmworkonhrs	0	0 hrs	26	68	251	78	2,432	80	15,392	82	3.6	2.3	.23	2.3	.25	2.0	.28	
	(Recoded version of tmworkon created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	2	5	18	6	129	4	694	4								
		8	6-10 hrs	3	8	19	6	196	6	1,110	6								
		13	11-15 hrs	4	11	15	5	147	5	670	4								
		18	16-20 hrs	3	8	11	3	115	4	439	2								
		23	21-25 hrs	0	0	5	2	19	1	119	1								
		28	26-30 hrs	0	0	0	0	5	0	39	0								
		33	More than 30 hrs	0	0	1	0	12	0	199	1								
			Total	38	100	320	100	3,055	100	18,662	100								

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
d. Working for pay off campus	tmworkoffhrs	0	0 hrs	25	66	230	72	2,400	79	14,669	79	5.2	4.3	.11	3.1	.29	3.0	.32	
		3	1-5 hrs	1	3	13	4	125	4	779	4								
		8	6-10 hrs	4	11	21	7	115	4	854	5								
		13	11-15 hrs	2	5	16	5	101	3	707	4								
		18	16-20 hrs	4	11	16	5	133	4	669	4								
		23	21-25 hrs	0	0	7	2	68	2	365	2								
		28	26-30 hrs	0	0	6	2	38	1	188	1								
		33	More than 30 hrs	2	5	10	3	52	2	332	2								
			Total	38	100	319	100	3,032	100	18,563	100								
	Estimated number of hours working for pay	tmworkhrs																	8.8
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	24	67	213	68	1,878	62	11,959	65	1.8	1.9	-.01	2.0	-.05	2.0	-.03	
		3	1-5 hrs	10	28	73	23	884	29	4,870	26								
		8	6-10 hrs	1	3	11	4	124	4	785	4								
		13	11-15 hrs	0	0	6	2	65	2	367	2								
		18	16-20 hrs	0	0	5	2	37	1	234	1								
		23	21-25 hrs	0	0	2	1	19	1	114	1								
		28	26-30 hrs	1	3	1	0	5	0	48	0								
		33	More than 30 hrs	0	0	1	0	12	0	72	0								
		Total	36	100	312	100	3,024	100	18,449	100									
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	tmrelaxhrs	0	0 hrs	0	0	3	1	44	1	326	2	13.3	14.4	-.13	13.0	.03	12.8	.06	
		3	1-5 hrs	6	16	43	13	545	18	3,416	18								
		8	6-10 hrs	13	34	79	25	813	27	5,088	27								
		13	11-15 hrs	8	21	72	23	647	21	3,907	21								
		18	16-20 hrs	3	8	49	15	442	15	2,629	14								
		23	21-25 hrs	4	11	32	10	247	8	1,354	7								
		28	26-30 hrs	0	0	17	5	102	3	618	3								
	33	More than 30 hrs	4	11	25	8	192	6	1,183	6									
		Total	38	100	320	100	3,032	100	18,521	100									

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Frequencies and Statistical Comparisons: Engineering

University of North Dakota

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
												Mean		Effect size ⁿ		Effect size ⁿ			
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
<i>Your first-year students compared with</i>																			
g. Providing care for dependents (children, parents, etc.)				34 89		264 83		2,494 83		14,915 81		1.6	1.7	-.01	1.7	-.01	1.9	-.04	
	tmcarehrs	0	0 hrs	34	89	264	83	2,494	83	14,915	81								
	(Recoded version of tmcare created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	1	3	26	8	255	8	1,645	9								
		8	6-10 hrs	0	0	9	3	87	3	730	4								
		13	11-15 hrs	2	5	7	2	70	2	419	2								
		18	16-20 hrs	0	0	8	3	48	2	300	2								
		23	21-25 hrs	0	0	2	1	23	1	155	1								
		28	26-30 hrs	0	0	0	0	9	0	69	0								
		33	More than 30 hrs	1	3	3	1	34	1	214	1								
			Total	38	100	319	100	3,020	100	18,447	100								
h. Commuting to campus (driving, walking, etc.)				21 55		131 41		1,186 39		6,849 37		2.1	3.7	-.28	3.7	-.29	4.0 **	-0.35	
	tmcommutehrs	0	0 hrs	21	55	131	41	1,186	39	6,849	37								
	(Recoded version of tmcommute created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	13	34	124	39	1,226	40	7,245	39								
		8	6-10 hrs	3	8	40	13	384	13	2,662	14								
		13	11-15 hrs	0	0	7	2	126	4	1,019	5								
		18	16-20 hrs	1	3	10	3	64	2	438	2								
		23	21-25 hrs	0	0	1	0	27	1	169	1								
		28	26-30 hrs	0	0	2	1	7	0	66	0								
		33	More than 30 hrs	0	0	4	1	24	1	126	1								
			Total	38	100	319	100	3,044	100	18,574	100								
16. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading?																			
	reading	1	Very little	6	16	73	23	666	22	4,284	23	2.4	2.4	.09	2.3	.14	2.3	.15	
	(Revised for 2014. Comparison data are limited to NSSE 2014 participating institutions.)	2	Some	16	42	117	37	1,292	43	7,659	41								
		3	About half	10	26	73	23	667	22	3,980	22								
		4	Most	5	13	49	15	316	10	1,977	11								
		5	Almost all	1	3	5	2	95	3	603	3								
			Total	38	100	317	100	3,036	100	18,503	100								
	tmreadinghrs											5.5	6.0	-.09	5.8	-.04	6.0	-.09	
	(Continuous variable created by NSSE. Calculated as a proportion of tmprephrs based on reading, where Very little=.10; Some=.25; About half=.50; Most=.75; Almost all=.90)																		

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Frequencies and Statistical Comparisons: Engineering

University of North Dakota

First-Year Students^a in Engineering

Item wording or description				Frequency Distributions								Statistical Comparisons ^k																									
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015																			
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ																		
<i>Variable name^l</i>												<i>Your first-year students compared with</i>																									
<i>Values^m</i>																																					
<i>Response options</i>																																					
tmreadinghrscol (Collapsed version of tmreadinghrs created by NSSE.)				1	0 hrs	0	0	1	0	12	0	100	1																								
				2	More than zero, up to 5 hrs	23	61	175	55	1,706	56	10,248	56																								
				3	More than 5, up to 10 hrs	10	26	87	27	879	29	5,207	28																								
				4	More than 10, up to 15 hrs	3	8	27	9	217	7	1,332	7																								
				5	More than 15, up to 20 hrs	1	3	15	5	118	4	844	5																								
				6	More than 20, up to 25 hrs	1	3	12	4	67	2	475	3																								
				7	More than 25 hrs	0	0	0	0	21	1	186	1																								
					Total	38	100	317	100	3,020	100	18,392	100																								
17. How much has your experience at this institution contributed to your knowledge, skills, and personal development in the following areas?																																					
a. Writing clearly and effectively				pgwrite				1 Very little 2 Some 3 Quite a bit 4 Very much Total				2.8		2.5		.24		2.6		.18		2.6		.21													
																										2.5		.24		2.6		.18		2.6		.21	
																										2.5		.24		2.6		.18		2.6		.21	
																										2.5		.24		2.6		.18		2.6		.21	
																										2.5		.24		2.6		.18		2.6		.21	
b. Speaking clearly and effectively				pgspeak				1 Very little 2 Some 3 Quite a bit 4 Very much Total				2.4		2.4		.03		2.5		-.01		2.4		.01													
																										2.4		.03		2.5		-.01		2.4		.01	
																										2.4		.03		2.5		-.01		2.4		.01	
																										2.4		.03		2.5		-.01		2.4		.01	
																										2.4		.03		2.5		-.01		2.4		.01	
c. Thinking critically and analytically				pgthink				1 Very little 2 Some 3 Quite a bit 4 Very much Total				2.9		3.1		-.20		3.1		-.20		3.1		-.20													
																										3.1		-.20		3.1		-.20		3.1		-.20	
																										3.1		-.20		3.1		-.20		3.1		-.20	
																										3.1		-.20		3.1		-.20		3.1		-.20	
																										3.1		-.20		3.1		-.20		3.1		-.20	
d. Analyzing numerical and statistical information				pganalyze				1 Very little 2 Some 3 Quite a bit 4 Very much Total				2.9		3.0		-.11		3.0		-.06		3.0		-.10													
																										3.0		-.11		3.0		-.06		3.0		-.10	
																										3.0		-.11		3.0		-.06		3.0		-.10	
																										3.0		-.11		3.0		-.06		3.0		-.10	
																										3.0		-.11		3.0		-.06		3.0		-.10	

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

First-Year Students^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k						
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Your first-year students compared with				
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ		Mean	Effect size ⁿ	
														Mean	Effect size ⁿ		Mean	Effect size ⁿ
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	5	13	37	12	365	12	2,219	12	2.5	2.5	-.02	2.7	-.16	2.7	-.18
		2	Some	14	37	121	38	945	31	5,587	30							
		3	Quite a bit	13	34	110	34	1,054	35	6,494	35							
		4	Very much	6	16	51	16	684	22	4,356	23							
		Total		38	100	319	100	3,048	100	18,656	100							
f. Working effectively with others	pgothers	1	Very little	3	8	23	7	185	6	1,149	6	2.8	2.7	.12	2.9	-.10	2.9	-.10
		2	Some	12	32	115	36	825	27	4,976	27							
		3	Quite a bit	13	34	119	37	1,214	40	7,485	40							
		4	Very much	10	26	61	19	819	27	5,029	27							
		Total		38	100	318	100	3,043	100	18,639	100							
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	4	11	57	18	493	16	3,013	16	2.5	2.5	.08	2.6	-.05	2.6	-.04
		2	Some	16	42	108	34	933	31	5,849	31							
		3	Quite a bit	12	32	103	32	993	33	5,959	32							
		4	Very much	6	16	49	15	630	21	3,817	20							
		Total		38	100	317	100	3,049	100	18,638	100							
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	5	13	62	19	486	16	3,281	18	2.6	2.4	.19	2.5	.07	2.5	.08
		2	Some	14	37	126	40	1,073	35	6,231	33							
		3	Quite a bit	11	29	75	24	908	30	5,642	30							
		4	Very much	8	21	55	17	568	19	3,480	19							
		Total		38	100	318	100	3,035	100	18,634	100							
i. Solving complex real-world problems	pgprobsolve	1	Very little	6	16	38	12	330	11	1,881	10	2.5	2.6	-.09	2.7	-.18	2.8	-.24
		2	Some	13	34	111	35	958	31	5,484	29							
		3	Quite a bit	12	32	103	32	1,053	35	6,674	36							
		4	Very much	7	18	65	21	703	23	4,601	25							
		Total		38	100	317	100	3,044	100	18,640	100							
j. Being an informed and active citizen	pgcitizen	1	Very little	9	25	54	17	566	19	3,472	19	2.1	2.4	-.32	2.4 *	-.33	2.4 *	-.32
		2	Some	16	44	127	40	1,086	36	6,717	36							
		3	Quite a bit	9	25	90	28	910	30	5,516	30							
		4	Very much	2	6	48	15	472	16	2,862	15							
		Total		36	100	319	100	3,034	100	18,567	100							

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

First-Year Students^a in Engineering

Item wording or description				Frequency Distributions								Statistical Comparisons ^k							
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
18. How would you evaluate your entire educational experience at this institution?																			
evalexp																			
	1	Poor	1	3	5	2	43	1	340	2	3.2	3.1	.15	3.2	.02	3.2	.02		
	2	Fair	0	0	40	12	357	12	2,188	12									
	3	Good	26	68	183	57	1,547	50	9,242	49									
	4	Excellent	11	29	93	29	1,121	37	6,982	37									
		Total	38	100	321	100	3,068	100	18,752	100									
19. If you could start over again, would you go to the same institution you are now attending?																			
sameinst																			
	1	Definitely no	1	3	11	3	77	3	517	3	3.6	3.2 **	.51	3.3 *	.37	3.3 *	.36		
	2	Probably no	1	3	28	9	334	11	1,944	10									
	3	Probably yes	12	32	174	54	1,341	44	8,089	43									
	4	Definitely yes	24	63	109	34	1,327	43	8,222	44									
		Total	38	100	322	100	3,079	100	18,772	100									

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

Seniors^a in Engineering

Item wording or description				Frequency Distributions								Statistical Comparisons ^k						
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Your seniors compared with				
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
1. During the current school year, about how often have you done the following?																		
a. Asked questions or contributed to course discussions in other ways	askquest	1	Never	6	6	30	5	190	4	1,105	5	2.8	2.8	-.08	2.8	-.06	2.8	-.05
		2	Sometimes	30	32	184	33	1,626	37	7,919	36							
		3	Often	37	40	184	33	1,450	33	6,970	32							
		4	Very often	20	22	154	28	1,188	27	5,909	27							
			Total	93	100	552	100	4,454	100	21,903	100							
b. Prepared two or more drafts of a paper or assignment before turning it in	drafts	1	Never	18	20	121	22	1,149	26	5,692	26	2.4	2.3	.16	2.2 *	.22	2.2 *	.22
		2	Sometimes	34	37	224	41	1,705	38	8,306	38							
		3	Often	22	24	134	24	1,025	23	5,064	23							
		4	Very often	18	20	72	13	554	12	2,771	13							
			Total	92	100	551	100	4,433	100	21,833	100							
c. Come to class without completing readings or assignments	unpreparedr <i>(Reverse-coded version of unprepared created by NSSE.)</i>	1	Very often	3	3	36	7	327	7	1,728	8	3.2	3.0 *	.27	2.9 ***	.39	2.9 ***	.42
		2	Often	6	7	72	13	771	17	3,994	18							
		3	Sometimes	52	57	307	56	2,420	55	11,778	54							
		4	Never	30	33	137	25	914	21	4,317	20							
			Total	91	100	552	100	4,432	100	21,817	100							
d. Attended an art exhibit, play or other arts performance (dance, music, etc.)	attendart	1	Never	56	61	285	53	2,170	49	10,765	50	1.6	1.6	.00	1.7	-.08	1.7	-.06
		2	Sometimes	21	23	190	35	1,596	36	7,972	37							
		3	Often	8	9	45	8	454	10	2,156	10							
		4	Very often	7	8	21	4	193	4	854	4							
			Total	92	100	541	100	4,413	100	21,747	100							
e. Asked another student to help you understand course material	CLaskhelp	1	Never	19	21	37	7	255	6	1,173	5	2.5	2.8 **	-.32	2.8 ***	-.41	2.8 **	-.40
		2	Sometimes	30	33	207	38	1,466	33	7,497	34							
		3	Often	25	27	163	30	1,512	34	7,524	34							
		4	Very often	18	20	145	26	1,200	27	5,627	26							
			Total	92	100	552	100	4,433	100	21,821	100							
f. Explained course material to one or more students	CLexplain	1	Never	13	14	9	2	88	2	387	2	2.5	3.0 ***	-.57	3.0 ***	-.62	3.0 ***	-.62
		2	Sometimes	34	37	146	27	1,094	25	5,558	26							
		3	Often	30	32	232	42	1,856	42	9,124	42							
		4	Very often	16	17	160	29	1,393	31	6,718	31							
			Total	93	100	547	100	4,431	100	21,787	100							

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
												Mean		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ	
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
g. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	27	29	61	11	434	10	1,956	9	2.4	2.8 **	-0.40	2.9 ***	-0.47	2.9 ***	-0.48	
		2	Sometimes	22	24	159	29	1,222	27	6,134	28								
		3	Often	24	26	158	29	1,295	29	6,584	30								
		4	Very often	20	22	173	31	1,499	34	7,154	33								
		Total		93	100	551	100	4,450	100	21,828	100								
h. Worked with other students on course projects or assignments	CLproject	1	Never	14	15	8	1	100	2	409	2	2.9	3.2 **	-0.44	3.3 ***	-0.48	3.3 ***	-0.55	
		2	Sometimes	13	14	97	18	743	17	3,231	15								
		3	Often	37	40	202	37	1,491	34	7,396	34								
		4	Very often	29	31	243	44	2,098	47	10,784	49								
		Total		93	100	550	100	4,432	100	21,820	100								
i. Given a course presentation	present	1	Never	22	24	81	15	555	13	2,175	10	2.3	2.5 *	-0.23	2.6 **	-0.34	2.7 ***	-0.41	
		2	Sometimes	36	39	204	37	1,591	36	7,812	36								
		3	Often	22	24	171	31	1,351	31	7,044	32								
		4	Very often	13	14	92	17	932	21	4,772	22								
		Total		93	100	548	100	4,429	100	21,803	100								
2. During the current school year, about how often have you done the following?																			
a. Combined ideas from different courses when completing assignments	RIintegrate	1	Never	3	3	7	1	97	2	526	2	2.9	3.0	-0.22	3.0	-0.19	3.0	-0.15	
		2	Sometimes	33	35	130	24	1,131	26	5,783	27								
		3	Often	31	33	251	46	1,816	41	9,104	42								
		4	Very often	26	28	161	29	1,386	31	6,380	29								
		Total		93	100	549	100	4,430	100	21,793	100								
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	13	14	73	14	635	14	2,983	14	2.4	2.4	-0.05	2.4	-0.04	2.4	-0.06	
		2	Sometimes	42	46	234	43	1,935	44	9,445	44								
		3	Often	27	29	171	32	1,257	29	6,344	29								
		4	Very often	10	11	62	11	578	13	2,894	13								
		Total		92	100	540	100	4,405	100	21,666	100								
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIDiverse	1	Never	31	34	176	32	1,476	33	7,236	33	1.9	2.0	-0.12	2.0	-0.10	2.0	-0.11	
		2	Sometimes	45	49	243	44	1,902	43	9,243	43								
		3	Often	12	13	91	17	735	17	3,700	17								
		4	Very often	4	4	38	7	299	7	1,525	7								
		Total		92	100	548	100	4,412	100	21,704	100								

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

Seniors^a in Engineering

Item wording or description				Variable name ^l				Frequency Distributions				Statistical Comparisons ^k												
								UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015		
								Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
d. Examined the strengths and weaknesses of your own views on a topic or issue				RIownview				1	Never	12	13	51	9	480	11	2,363	11	2.4	2.5	-.11	2.5	-.13	2.5	-.12
				2	Sometimes	37	40	238	43	1,732	39	8,650	40											
				3	Often	37	40	187	34	1,559	35	7,684	35											
				4	Very often	7	8	73	13	644	15	3,009	14											
				Total		93	100	549	100	4,415	100	21,706	100											
e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective				RIperspect				1	Never	10	11	43	8	405	9	1,947	9	2.5	2.6	-.10	2.7	-.12	2.6	-.11
				2	Sometimes	35	38	203	37	1,540	35	7,750	36											
				3	Often	35	38	208	38	1,620	37	8,087	37											
				4	Very often	13	14	90	17	832	19	3,891	18											
				Total		93	100	544	100	4,397	100	21,675	100											
f. Learned something that changed the way you understand an issue or concept				RInewview				1	Never	4	4	23	4	186	4	835	4	2.7	2.7	-.05	2.8	-.09	2.8	-.10
				2	Sometimes	37	41	190	35	1,494	34	7,360	34											
				3	Often	32	35	236	43	1,843	42	9,161	42											
				4	Very often	18	20	97	18	882	20	4,330	20											
				Total		91	100	546	100	4,405	100	21,686	100											
g. Connected ideas from your courses to your prior experiences and knowledge				RIconnect				1	Never	2	2	6	1	79	2	428	2	3.0	3.1	-.17	3.1	-.10	3.1	-.07
				2	Sometimes	26	28	95	17	959	22	4,704	22											
				3	Often	35	38	268	49	1,907	43	9,679	45											
				4	Very often	30	32	176	32	1,447	33	6,808	31											
				Total		93	100	545	100	4,392	100	21,619	100											
3. During the current school year, about how often have you done the following?																								
a. Talked about career plans with a faculty member				SFcareer				1	Never	38	41	98	18	986	22	4,892	23	1.8	2.4 ***	-.57	2.3 ***	-.45	2.3 ***	-.46
				2	Sometimes	36	39	236	43	1,887	43	9,093	42											
				3	Often	16	17	139	25	962	22	4,765	22											
				4	Very often	3	3	77	14	572	13	2,963	14											
				Total		93	100	550	100	4,407	100	21,713	100											
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)				SFotherwork				1	Never	53	57	206	38	1,769	40	9,010	42	1.7	2.1 ***	-.45	2.0 **	-.34	2.0 **	-.31
				2	Sometimes	25	27	147	27	1,338	30	6,590	30											
				3	Often	9	10	116	21	770	18	3,668	17											
				4	Very often	6	6	79	14	515	12	2,388	11											
				Total		93	100	548	100	4,392	100	21,656	100											

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k									
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015			
				Count		Count		Count		Count		Mean		Mean		Mean		Mean			
				%		%		%		%		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ			
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	39	42	90	17	941	21	4,654	21	1.8	2.4 ***	-0.65	2.3 ***	-0.50	2.3 ***	-0.50	2.3 ***	-0.50	
		2	Sometimes	37	40	229	42	1,903	43	9,273	43										
		3	Often	14	15	159	29	1,056	24	5,124	24										
		4	Very often	3	3	67	12	500	11	2,613	12										
		Total		93	100	545	100	4,400	100	21,664	100										
d. Discussed your academic performance with a faculty member	SFperform	1	Never	37	40	122	22	1,207	28	6,398	30	1.8	2.1 ***	-0.44	2.1 **	-0.34	2.0 **	-0.32	2.0 **	-0.32	
		2	Sometimes	44	47	274	50	2,058	47	9,636	45										
		3	Often	9	10	104	19	754	17	3,844	18										
		4	Very often	3	3	47	9	366	8	1,762	8										
		Total		93	100	547	100	4,385	100	21,640	100										
4. During the current school year, how much has your coursework emphasized the following?																					
a. Memorizing course material	memorize	1	Very little	5	5	48	9	479	11	2,263	10	2.5	2.6	-0.09	2.6	-0.11	2.6	-0.08	2.6	-0.08	
		2	Some	47	51	223	41	1,627	37	8,350	38										
		3	Quite a bit	29	32	190	35	1,506	34	7,665	35										
		4	Very much	11	12	88	16	813	18	3,494	16										
		Total		92	100	549	100	4,425	100	21,772	100										
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	1	1	9	2	99	2	418	2	3.3	3.3	.02	3.3	.02	3.3	.03	3.3	.03	
		2	Some	16	17	72	13	510	12	2,526	12										
		3	Quite a bit	26	28	197	36	1,650	37	8,389	39										
		4	Very much	50	54	272	49	2,156	49	10,380	48										
		Total		93	100	550	100	4,415	100	21,713	100										
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	2	2	17	3	192	4	1,029	5	3.1	3.1	-0.01	3.1	-0.01	3.1	.03	3.1	.03	
		2	Some	19	21	119	22	808	18	4,192	19										
		3	Quite a bit	36	40	187	34	1,636	37	8,213	38										
		4	Very much	34	37	222	41	1,760	40	8,212	38										
		Total		91	100	545	100	4,396	100	21,646	100										
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	10	11	79	14	699	16	3,183	15	2.5	2.5	.02	2.5	.02	2.5	.01	2.5	.01	
		2	Some	37	41	195	36	1,513	34	7,512	35										
		3	Quite a bit	28	31	177	32	1,374	31	7,015	32										
		4	Very much	16	18	95	17	823	19	3,972	18										
		Total		91	100	546	100	4,409	100	21,682	100										

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
												Mean		Effect size ⁿ		Effect size ⁿ			
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
e. Forming a new idea or understanding from various pieces of information	HOform	1	Very little	7	8	40	7	326	7	1,656	8	2.9	2.8	.07	2.8	.06	2.8	.08	
		2	Some	22	24	161	29	1,210	27	6,097	28								
		3	Quite a bit	38	41	206	38	1,760	40	8,541	39								
		4	Very much	25	27	140	26	1,114	25	5,361	25								
		Total		92	100	547	100	4,410	100	21,655	100								
5. During the current school year, to what extent have your instructors done the following?																			
a. Clearly explained course goals and requirements	ETgoals	1	Very little	0	0	13	2	159	4	645	3	3.1	3.1	.09	3.0	.17	3.0	.12	
		2	Some	19	20	100	18	978	22	4,448	20								
		3	Quite a bit	43	46	276	50	2,039	46	10,330	47								
		4	Very much	31	33	161	29	1,270	29	6,444	29								
		Total		93	100	550	100	4,446	100	21,867	100								
b. Taught course sessions in an organized way	ETorganize	1	Very little	2	2	10	2	159	4	669	3	3.1	3.0	.13	3.0	.19	3.0	.17	
		2	Some	12	13	109	20	971	22	4,567	21								
		3	Quite a bit	49	53	278	51	2,066	47	10,524	48								
		4	Very much	29	32	153	28	1,237	28	6,067	28								
		Total		92	100	550	100	4,433	100	21,827	100								
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	1	1	10	2	171	4	707	3	3.2	3.1	.05	3.1	.12	3.1	.09	
		2	Some	16	17	98	18	875	20	4,144	19								
		3	Quite a bit	43	46	254	46	1,890	43	9,431	43								
		4	Very much	33	35	186	34	1,498	34	7,502	34								
		Total		93	100	548	100	4,434	100	21,784	100								
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	12	13	94	17	784	18	3,650	17	2.5	2.5	-.06	2.4	.04	2.5	.00	
		2	Some	41	45	173	32	1,640	37	7,813	36								
		3	Quite a bit	23	25	178	33	1,316	30	6,751	31								
		4	Very much	16	17	102	19	680	15	3,559	16								
		Total		92	100	547	100	4,420	100	21,773	100								
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	13	14	36	7	446	10	2,132	10	2.5	2.7	-.21	2.7	-.14	2.7	-.14	
		2	Some	32	35	184	34	1,415	32	7,078	33								
		3	Quite a bit	31	34	222	40	1,719	39	8,417	39								
		4	Very much	16	17	107	19	835	19	4,098	19								
		Total		92	100	549	100	4,415	100	21,725	100								

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University of North Dakota

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
				Count		Count		Count		Count		Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
Item wording or description	Variable name ^l	Values ^m	Response options		%		%		%		%								
6. During the current school year, about how often have you done the following?																			
a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	QRconclude	1	Never	1	1	12	2	117	3	582	3	3.2	3.3	-.07	3.2	.00	3.2	.04	
		2	Sometimes	19	20	83	15	762	17	3,863	18								
		3	Often	32	34	202	37	1,619	36	8,329	38								
		4	Very often	41	44	254	46	1,950	44	9,096	42								
			Total	93	100	551	100	4,448	100	21,870	100								
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	8	9	63	11	712	16	3,307	15	2.8	2.8	.03	2.7	.13	2.7	.14	
		2	Sometimes	27	29	153	28	1,267	29	6,589	30								
		3	Often	33	35	179	33	1,221	27	6,183	28								
		4	Very often	25	27	155	28	1,242	28	5,774	26								
			Total	93	100	550	100	4,442	100	21,853	100								
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	9	10	39	7	435	10	2,168	10	2.7	2.8	-.14	2.7	-.05	2.7	-.03	
		2	Sometimes	30	32	179	33	1,418	32	7,166	33								
		3	Often	36	39	179	33	1,502	34	7,467	34								
		4	Very often	18	19	152	28	1,072	24	5,002	23								
			Total	93	100	549	100	4,427	100	21,803	100								
7. During the current school year, about how many papers, reports, or other writing tasks of the following length have you been assigned? (Include those not yet completed.)																			
a. Up to 5 pages	wrshortnum	0	None	10	12	35	7	456	11	1,896	9	5.0	7.1 ***	-.34	6.1 *	-.18	6.6 **	-.24	
	(Recorded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	21	24	113	21	1,066	25	4,923	23								
		4	3-5	26	30	141	26	1,160	27	5,820	28								
		8	6-10	20	23	126	24	799	19	4,154	20								
		13	11-15	7	8	53	10	367	9	1,883	9								
		18	16-20	0	0	26	5	174	4	891	4								
		23	More than 20	2	2	39	7	236	6	1,487	7								
			Total	86	100	533	100	4,258	100	21,054	100								
b. Between 6 and 10 pages	wrmednum	0	None	20	23	142	28	1,157	28	4,634	22	3.3	3.6	-.05	3.5	-.04	3.9	-.11	
	(Recorded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	29	33	166	32	1,361	32	6,819	33								
		4	3-5	22	25	112	22	899	21	5,006	24								
		8	6-10	13	15	51	10	429	10	2,474	12								
		13	11-15	1	1	24	5	193	5	966	5								
		18	16-20	1	1	7	1	80	2	405	2								
		23	More than 20	1	1	13	3	80	2	448	2								
			Total	87	100	515	100	4,199	100	20,752	100								

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				Frequency Distributions								Statistical Comparisons ^k							
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
				Count		Count		Count		Count		Mean		Mean		Mean		Mean	
				%		%		%		%		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ	
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
c. 11 pages or more	wrlongnum	0	None	28	32	208	40	1,638	39	6,702	32	2.4	2.6	-.05	2.7	-.07	3.2 *	-0.16	
	(Recoded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	35	40	166	32	1,406	34	7,234	35								
	4	3-5	11	13	71	14	575	14	3,533	17									
	8	6-10	11	13	41	8	307	7	1,814	9									
	13	11-15	2	2	16	3	141	3	742	4									
	18	16-20	0	0	4	1	50	1	329	2									
	23	More than 20	0	0	9	2	78	2	493	2									
	Total			87	100	515	100	4,195	100	20,847	100								
Estimated number of assigned pages of student writing.	wpages		(Continuous variable, recoded and summed by NSSE from wrshort, wrmed, and wrlong. Values are estimated pages of assigned writing.)									77.9	86.7	-.09	84.5	-.07	95.1 *	-0.16	
8. During the current school year, about how often have you had discussions with people from the following groups?																			
a. People of a race or ethnicity other than your own	DDrace	1	Never	12	13	33	6	239	5	1,169	5	2.6	2.9 **	-.32	3.1 ***	-.53	3.1 ***	-.57	
		2	Sometimes	33	36	170	31	1,051	24	4,783	22								
		3	Often	27	29	167	30	1,211	27	6,012	28								
		4	Very often	20	22	178	32	1,938	44	9,890	45								
			Total	92	100	548	100	4,439	100	21,854	100								
b. People from an economic background other than your own	DDeconomic	1	Never	10	11	29	5	206	5	1,072	5	2.7	3.0 **	-.30	3.1 ***	-.44	3.1 ***	-.44	
		2	Sometimes	28	30	139	25	931	21	4,626	21								
		3	Often	33	36	194	36	1,500	34	7,211	33								
		4	Very often	21	23	184	34	1,792	40	8,901	41								
	Total	92	100	546	100	4,429	100	21,810	100										
c. People with religious beliefs other than your own	DDreligion	1	Never	13	14	29	5	331	7	1,382	6	2.6	3.0 ***	-.48	3.0 ***	-.46	3.1 ***	-.51	
		2	Sometimes	31	34	132	24	1,006	23	4,946	23								
		3	Often	28	31	184	34	1,293	29	6,386	29								
		4	Very often	19	21	202	37	1,785	40	9,061	42								
	Total	91	100	547	100	4,415	100	21,775	100										
d. People with political views other than your own	DDpolitical	1	Never	11	12	36	7	253	6	1,282	6	2.7	3.0 *	-.29	3.0 **	-.31	3.0 **	-.32	
		2	Sometimes	26	29	126	23	1,087	25	5,151	24								
		3	Often	30	33	177	33	1,380	31	6,902	32								
		4	Very often	24	26	203	37	1,682	38	8,350	39								
	Total	91	100	542	100	4,402	100	21,685	100										

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				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
9. During the current school year, about how often have you done the following?																			
a. Identified key information from reading assignments	LSreading	1	Never	2	2	22	4	220	5	1,113	5	2.9	3.0	-.08	2.9	-.02	2.9	-.04	
		2	Sometimes	29	31	133	24	1,217	27	5,565	25								
		3	Often	38	41	235	43	1,699	38	8,753	40								
		4	Very often	24	26	159	29	1,295	29	6,397	29								
		Total		93	100	549	100	4,431	100	21,828	100								
b. Reviewed your notes after class	LSnotes	1	Never	6	7	45	8	376	9	2,136	10	2.9	2.7	.14	2.8	.11	2.7	.16	
		2	Sometimes	30	33	199	36	1,494	34	7,600	35								
		3	Often	27	29	165	30	1,391	31	6,614	30								
		4	Very often	29	32	140	26	1,162	26	5,448	25								
		Total		92	100	549	100	4,423	100	21,798	100								
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	7	8	61	11	472	11	2,297	11	2.8	2.6	.12	2.6	.11	2.7	.09	
		2	Sometimes	32	35	194	36	1,535	35	7,491	35								
		3	Often	30	33	174	32	1,446	33	7,031	33								
		4	Very often	23	25	117	21	934	21	4,796	22								
		Total		92	100	546	100	4,387	100	21,615	100								
10. During the current school year, to what extent have your courses challenged you to do your best work?																			
challenge		1	Not at all	0	0	2	0	32	1	174	1	5.8	5.7	.13	5.6	.16	5.6	.20	
		2		0	0	12	2	73	2	370	2								
		3		4	4	18	3	158	4	752	3								
		4		4	4	34	6	349	8	1,915	9								
		5		25	27	136	25	1,204	27	6,112	28								
		6		32	34	209	38	1,442	33	7,144	33								
		7	Very much	28	30	135	25	1,177	27	5,344	25								
		Total		93	100	546	100	4,435	100	21,811	100								
11. Which of the following have you done or do you plan to do before you graduate?^o																			
a. Participate in an internship, co-op, field experience, student teaching, or clinical placement	intern	Have not decided		7	8	22	4	193	4	900	4	42%	58% **	-.32	57% **	-.29	61% ***	-.38	
		Do not plan to do		21	23	58	11	478	11	2,832	13								
		Plan to do		25	27	150	27	1,242	28	4,760	22								
		Done or in progress		39	42	320	58	2,529	57	13,377	61								
		Total		92	100	550	100	4,442	100	21,869	100								

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			Frequency Distributions								Statistical Comparisons ^k							
			UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
Item wording or description	Variable name ^l	Values ^m	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
b. Hold a formal leadership role in a student organization or group	leader <i>(Means indicate the percentage who responded "Done or in progress.")</i>	Have not decided	11	12	58	11	392	9	1,831	8	32%	46% *	-0.29	44% *	-0.24	44% *	-0.24	
		Do not plan to do	45	48	171	31	1,653	37	8,517	39								
		Plan to do	7	8	64	12	449	10	1,871	9								
		Done or in progress	30	32	253	46	1,938	44	9,629	44								
		Total	93	100	546	100	4,432	100	21,848	100								
c. Participate in a learning community or some other formal program where groups of students take two or more classes together	learncom <i>(Means indicate the percentage who responded "Done or in progress.")</i>	Have not decided	12	13	55	10	443	10	2,197	10	23%	29%	-0.14	28%	-0.11	27%	-0.09	
		Do not plan to do	52	57	278	51	2,372	54	11,987	55								
		Plan to do	7	8	57	10	392	9	1,815	8								
		Done or in progress	21	23	159	29	1,217	28	5,809	27								
		Total	92	100	549	100	4,424	100	21,808	100								
d. Participate in a study abroad program	abroad <i>(Means indicate the percentage who responded "Done or in progress.")</i>	Have not decided	14	15	59	11	439	10	2,113	10	11%	10%	0.02	11%	-0.01	11%	-0.01	
		Do not plan to do	63	68	395	72	3,155	71	15,650	72								
		Plan to do	5	5	37	7	337	8	1,553	7								
		Done or in progress	10	11	57	10	491	11	2,458	11								
		Total	92	100	548	100	4,422	100	21,774	100								
e. Work with a faculty member on a research project	research <i>(Means indicate the percentage who responded "Done or in progress.")</i>	Have not decided	20	22	91	17	615	14	2,818	13	17%	32% **	-0.35	32% **	-0.35	34% ***	-0.39	
		Do not plan to do	33	36	197	36	1,516	34	7,884	36								
		Plan to do	23	25	80	15	863	20	3,615	17								
		Done or in progress	16	17	177	32	1,423	32	7,423	34								
		Total	92	100	545	100	4,417	100	21,740	100								
f. Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)	capstone <i>(Means indicate the percentage who responded "Done or in progress.")</i>	Have not decided	5	5	20	4	184	4	866	4	40%	49%	-0.18	57% **	-0.33	61% ***	-0.41	
		Do not plan to do	10	11	31	6	252	6	1,648	8								
		Plan to do	40	43	228	42	1,478	33	6,042	28								
		Done or in progress	37	40	268	49	2,514	57	13,230	61								
		Total	92	100	547	100	4,428	100	21,786	100								

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

servcourse	1	2	3	4	Total	UND	Plains Public	Carnegie Class	NSSE 2015	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
1	59	64	298	55	2,419	55	11,837	55	11,837	1.4	1.5 *	-0.25	1.5 *	-0.21	1.5 *	-0.22
2	31	34	206	38	1,747	40	8,717	40								
3	2	2	34	6	198	4	975	4								
4	0	0	7	1	41	1	180	1								
Total	92	100	545	100	4,405	100	21,709	100								

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				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
13. Indicate the quality of your interactions with the following people at your institution.																			
a. Students	QIstudent	1	Poor	3	3	1	0	40	1	204	1	5.5	5.8 *	-0.24	5.8	-0.20	5.8 *	-0.24	
		2		0	0	8	1	57	1	264	1								
		3		3	3	18	3	148	3	639	3								
		4		5	5	39	7	347	8	1,495	7								
		5		26	28	122	22	936	21	4,485	20								
		6		25	27	171	31	1,387	31	7,147	33								
		7	Excellent	21	23	189	34	1,519	34	7,595	35								
		—	Not applicable	10	11	3	1	12	0	68	0								
			Total	93	100	551	100	4,446	100	21,897	100								
b. Academic advisors	QIadvisor	1	Poor	5	5	34	6	261	6	1,263	6	4.9	5.0	-0.08	5.0	-0.07	5.0	-0.07	
		2		6	7	35	6	285	6	1,300	6								
		3		8	9	48	9	408	9	1,736	8								
		4		14	15	63	11	577	13	2,833	13								
		5		18	20	109	20	802	18	4,159	19								
		6		17	19	120	22	918	21	4,472	20								
		7	Excellent	19	21	139	25	1,126	25	5,186	24								
		—	Not applicable	4	4	3	1	58	1	917	4								
			Total	91	100	551	100	4,435	100	21,866	100								
c. Faculty	QIfaculty	1	Poor	0	0	11	2	103	2	452	2	5.2	5.3	-0.02	5.2	.01	5.3	-0.03	
		2		2	2	16	3	144	3	705	3								
		3		6	7	37	7	289	7	1,368	6								
		4		17	18	66	12	634	14	2,903	13								
		5		23	25	145	26	1,135	26	5,451	25								
		6		27	29	174	32	1,233	28	6,302	29								
		7	Excellent	14	15	99	18	862	19	4,483	21								
		—	Not applicable	3	3	1	0	22	0	125	1								
			Total	92	100	549	100	4,422	100	21,789	100								

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				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
												Mean		Effect size ⁿ		Effect size ⁿ			
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
d. Student services staff (career services, student activities, housing, etc.)	QIstaff	1	Poor	3	3	22	4	245	6	1,161	5	5.0	4.9	.02	4.8	.10	4.7	.12	
		2		2	2	19	3	253	6	1,233	6								
		3		6	6	35	6	339	8	1,751	8								
		4		13	14	88	16	683	15	3,274	15								
		5		16	17	120	22	864	19	4,417	20								
		6		20	22	117	21	824	19	4,103	19								
		7	Excellent	10	11	74	13	709	16	3,116	14								
		—	Not applicable	23	25	76	14	523	12	2,759	13								
	Total	93	100	551	100	4,440	100	21,814	100										
e. Other administrative staff and offices (registrar, financial aid, etc.)	QIadmin	1	Poor	2	2	34	6	293	7	1,328	6	5.0	4.7	.17	4.7 *	.20	4.7	.19	
		2		3	3	30	5	293	7	1,357	6								
		3		8	9	52	9	400	9	1,979	9								
		4		14	15	85	15	743	17	3,581	16								
		5		23	25	118	21	935	21	4,789	22								
		6		18	20	126	23	896	20	4,346	20								
		7	Excellent	15	16	73	13	643	15	3,086	14								
		—	Not applicable	9	10	32	6	231	5	1,373	6								
	Total	92	100	550	100	4,434	100	21,839	100										
14. How much does your institution emphasize the following?																			
a. Spending significant amounts of time studying and on academic work	empstudy	1	Very little	1	1	9	2	68	2	326	1	3.3	3.3	-.01	3.3	-.08	3.3	-.08	
		2	Some	11	12	73	13	550	12	2,661	12								
		3	Quite a bit	44	48	235	43	1,747	39	8,796	40								
		4	Very much	36	39	232	42	2,060	47	10,014	46								
			Total	92	100	549	100	4,425	100	21,797	100								
b. Providing support to help students succeed academically	SEacademic	1	Very little	5	5	32	6	253	6	1,302	6	2.7	2.9	-.16	2.9	-.20	2.9	-.17	
		2	Some	30	33	142	26	1,103	25	5,704	26								
		3	Quite a bit	41	45	242	44	1,897	43	9,170	42								
		4	Very much	15	16	130	24	1,140	26	5,491	25								
			Total	91	100	546	100	4,393	100	21,667	100								
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	8	9	67	12	380	9	2,369	11	2.6	2.7	-.09	2.8 *	-.21	2.7	-.11	
		2	Some	36	40	158	29	1,225	28	6,433	30								
		3	Quite a bit	31	34	200	37	1,680	38	8,032	37								
		4	Very much	16	18	120	22	1,101	25	4,835	22								
			Total	91	100	545	100	4,386	100	21,669	100								

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University of North Dakota

Seniors^a in Engineering

Item wording or description				Frequency Distributions								Statistical Comparisons ^k						
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Your seniors compared with				
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1	Very little	16	18	100	18	909	21	4,464	21	2.3	2.4	-.10	2.4	-.09	2.4	-.10
		2	Some	37	41	210	38	1,541	35	7,459	34							
		3	Quite a bit	30	33	154	28	1,233	28	6,214	29							
		4	Very much	7	8	84	15	723	16	3,580	16							
		Total		90	100	548	100	4,406	100	21,717	100							
e. Providing opportunities to be involved socially	SEsocial	1	Very little	13	14	41	7	376	9	1,979	9	2.5	2.8 **	-.33	2.8 **	-.29	2.8 *	-.26
		2	Some	28	31	151	28	1,264	29	6,271	29							
		3	Quite a bit	38	42	227	41	1,696	38	8,498	39							
		4	Very much	11	12	130	24	1,077	24	4,993	23							
		Total		90	100	549	100	4,413	100	21,741	100							
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	11	12	53	10	477	11	2,386	11	2.7	2.7	.02	2.7	-.03	2.7	-.03
		2	Some	25	28	177	32	1,261	29	6,140	28							
		3	Quite a bit	33	37	209	38	1,657	38	8,265	38							
		4	Very much	20	22	107	20	1,010	23	4,923	23							
		Total		89	100	546	100	4,405	100	21,714	100							
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	20	22	196	36	1,590	36	7,455	34	2.2	2.0	.19	2.0	.15	2.0	.13
		2	Some	42	47	192	35	1,562	35	7,868	36							
		3	Quite a bit	22	24	130	24	871	20	4,515	21							
		4	Very much	6	7	30	5	379	9	1,862	9							
		Total		90	100	548	100	4,402	100	21,700	100							
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	13	15	69	13	535	12	2,980	14	2.5	2.6	-.09	2.6	-.14	2.6	-.09
		2	Some	29	33	177	32	1,382	31	6,925	32							
		3	Quite a bit	36	40	214	39	1,615	37	7,716	36							
		4	Very much	11	12	88	16	864	20	4,055	19							
		Total		89	100	548	100	4,396	100	21,676	100							
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	16	18	126	23	1,005	23	4,900	23	2.2	2.2	-.03	2.2	-.07	2.3	-.09
		2	Some	46	51	229	42	1,806	41	8,466	39							
		3	Quite a bit	24	27	145	27	1,095	25	5,823	27							
		4	Very much	4	4	45	8	486	11	2,412	11							
		Total		90	100	545	100	4,392	100	21,601	100							

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k													
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015							
				Count	%	Count	%	Count	%	Count	%	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ						
15. About how many hours do you spend in a typical 7-day week doing the following?																									
a. Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)				0 0 hrs		3 1		22 0		123 1		18.6		18.7		-.01		18.2		.04		18.4		.01	
(tmpprephrs)				0 0		3 1		22 0		123 1															
(studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)				3 1-5 hrs		42 8		380 9		1,916 9															
(tmpprephrs)				3 1-5 hrs		42 8		380 9		1,916 9															
(Recoded version of tmpprephrs created by NSSE. Values are estimated number of hours per week.)				8 6-10 hrs		76 14		720 16		3,464 16															
(tmpprephrs)				8 6-10 hrs		76 14		720 16		3,464 16															
(tmpprephrs)				13 11-15 hrs		91 17		754 17		3,609 17															
(tmpprephrs)				13 11-15 hrs		91 17		754 17		3,609 17															
(tmpprephrs)				18 16-20 hrs		108 20		837 19		3,931 18															
(tmpprephrs)				18 16-20 hrs		108 20		837 19		3,931 18															
(tmpprephrs)				23 21-25 hrs		86 16		587 13		2,855 13															
(tmpprephrs)				23 21-25 hrs		86 16		587 13		2,855 13															
(tmpprephrs)				28 26-30 hrs		58 11		385 9		1,981 9															
(tmpprephrs)				28 26-30 hrs		58 11		385 9		1,981 9															
(tmpprephrs)				33 More than 30 hrs		83 15		732 17		3,927 18															
(tmpprephrs)				33 More than 30 hrs		83 15		732 17		3,927 18															
(tmpprephrs)				Total		90 100		547 100		4,417 100		21,806 100													
b. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)				0 0 hrs		173 32		1,489 34		7,164 33		2.7		5.8 ***		-.47		5.3 ***		-.39		5.6 ***		-.41	
(tmccocurrhrs)				0 0 hrs		173 32		1,489 34		7,164 33															
(tmccocurrhrs)				3 1-5 hrs		172 32		1,474 34		7,166 33															
(tmccocurrhrs)				3 1-5 hrs		172 32		1,474 34		7,166 33															
(Recoded version of tmccocurr created by NSSE. Values are estimated number of hours per week.)				8 6-10 hrs		90 17		711 16		3,481 16															
(tmccocurrhrs)				8 6-10 hrs		90 17		711 16		3,481 16															
(tmccocurrhrs)				13 11-15 hrs		49 9		330 8		1,698 8															
(tmccocurrhrs)				13 11-15 hrs		49 9		330 8		1,698 8															
(tmccocurrhrs)				18 16-20 hrs		36 7		194 4		1,093 5															
(tmccocurrhrs)				18 16-20 hrs		36 7		194 4		1,093 5															
(tmccocurrhrs)				23 21-25 hrs		11 2		90 2		487 2															
(tmccocurrhrs)				23 21-25 hrs		11 2		90 2		487 2															
(tmccocurrhrs)				28 26-30 hrs		6 1		39 1		234 1															
(tmccocurrhrs)				28 26-30 hrs		6 1		39 1		234 1															
(tmccocurrhrs)				33 More than 30 hrs		7 1		70 2		375 2															
(tmccocurrhrs)				33 More than 30 hrs		7 1		70 2		375 2															
(tmccocurrhrs)				Total		89 100		544 100		4,397 100		21,698 100													
c. Working for pay on campus				0 0 hrs		367 67		2,893 66		15,081 69		3.3		4.2		-.12		4.4		-.15		3.7		-.05	
(tmworkonhrs)				0 0 hrs		367 67		2,893 66		15,081 69															
(tmworkonhrs)				3 1-5 hrs		33 6		230 5		1,338 6															
(tmworkonhrs)				3 1-5 hrs		33 6		230 5		1,338 6															
(Recoded version of tmworkon created by NSSE. Values are estimated number of hours per week.)				8 6-10 hrs		43 8		425 10		2,069 10															
(tmworkonhrs)				8 6-10 hrs		43 8		425 10		2,069 10															
(tmworkonhrs)				13 11-15 hrs		40 7		316 7		1,361 6															
(tmworkonhrs)				13 11-15 hrs		40 7		316 7		1,361 6															
(tmworkonhrs)				18 16-20 hrs		43 8		397 9		1,185 5															
(tmworkonhrs)				18 16-20 hrs		43 8		397 9		1,185 5															
(tmworkonhrs)				23 21-25 hrs		12 2		87 2		335 2															
(tmworkonhrs)				23 21-25 hrs		12 2		87 2		335 2															
(tmworkonhrs)				28 26-30 hrs		4 1		26 1		117 1															
(tmworkonhrs)				28 26-30 hrs		4 1		26 1		117 1															
(tmworkonhrs)				33 More than 30 hrs		5 1		40 1		272 1															
(tmworkonhrs)				33 More than 30 hrs		5 1		40 1		272 1															
(tmworkonhrs)				Total		91 100		547 100		4,414 100		21,758 100													

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k																						
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015																
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ																
d. Working for pay off campus	Item wording or description	Variable name ^l	Values ^m	Response options									<i>Your seniors compared with</i>																					
Estimated number of hours working for pay				tmworkoffhrs	0	0 hrs	36	40	276	51	2,566	59	13,347	62	15.9	▲	9.5 ***	.52	▲	7.8 ***	.71	▲	6.9 ***	.83										
Estimated number of hours working for pay				tmworkhrs											18.8	▲	13.6 ***	.41	▲	12.1 ***	.55	▲	10.5 ***	.68										
e. Doing community service or volunteer work														2.0	▲	2.5	-.11	▲	2.2	-.05	▲	2.2	-.03											
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)														9.8	▲	11.4	-.21	▲	11.1	-.17	▲	11.8 *	-.25											

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k								
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015		
												Mean		Effect size ⁿ		Effect size ⁿ		Effect size ⁿ		
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ		
g. Providing care for dependents (children, parents, etc.)																				
	tmcarehrs	0	0 hrs	49	56	404	74	3,158	72	16,152	75	10.1	▲	4.3 ***	.57	▲	3.7 ***	.75	3.3 ***	.87
	(Recoded version of tmcare created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	3	3	34	6	444	10	2,092	10									
		8	6-10 hrs	3	3	23	4	214	5	930	4									
		13	11-15 hrs	3	3	17	3	156	4	632	3									
		18	16-20 hrs	8	9	19	3	103	2	539	2									
		23	21-25 hrs	4	5	7	1	70	2	278	1									
		28	26-30 hrs	3	3	6	1	40	1	188	1									
		33	More than 30 hrs	15	17	36	7	202	5	819	4									
			Total	88	100	546	100	4,387	100	21,630	100									
h. Commuting to campus (driving, walking, etc.)																				
	tmcommutehrs	0	0 hrs	42	46	41	7	403	9	2,664	12	3.0	▼	4.8 ***	-.40	▼	5.0 ***	-.41	5.1 ***	-.42
	(Recoded version of tmcommute created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	39	43	360	66	2,750	62	12,519	57									
		8	6-10 hrs	5	5	102	19	862	20	4,217	19									
		13	11-15 hrs	1	1	21	4	217	5	1,390	6									
		18	16-20 hrs	2	2	14	3	98	2	554	3									
		23	21-25 hrs	0	0	7	1	34	1	193	1									
		28	26-30 hrs	0	0	1	0	20	0	95	0									
		33	More than 30 hrs	2	2	1	0	28	1	146	1									
			Total	91	100	547	100	4,412	100	21,778	100									
16. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading?																				
	reading	1	Very little	27	30	159	29	1,397	32	7,181	33	2.2		2.2	.06	2.1	.13	2.1	.14	
	(Revised for 2014. Comparison data are limited to NSSE 2014 participating institutions.)	2	Some	32	35	223	41	1,761	40	8,463	39									
		3	About half	20	22	104	19	771	18	3,648	17									
		4	Most	8	9	33	6	339	8	1,715	8									
		5	Almost all	4	4	26	5	132	3	671	3									
			Total	91	100	545	100	4,400	100	21,678	100									
	tmreadinghrs											6.1		6.0	.01	5.5	.10	5.6	.09	
	(Continuous variable created by NSSE. Calculated as a proportion of tmprephrs based on reading, where Very little=.10; Some=.25; About half=.50; Most=.75; Almost all=.90)																			

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
												Mean		Effect size ⁿ		Effect size ⁿ			
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
	tmreadinghrscol	1	0 hrs	0	0	3	1	20	0	118	1								
	<i>(Collapsed version of tmreadinghrs created by NSSE.)</i>	2	More than zero, up to 5 hrs	48	53	303	56	2,628	60	12,970	60								
		3	More than 5, up to 10 hrs	26	29	152	28	1,155	26	5,663	26								
		4	More than 10, up to 15 hrs	9	10	40	7	265	6	1,231	6								
		5	More than 15, up to 20 hrs	6	7	22	4	172	4	888	4								
		6	More than 20, up to 25 hrs	1	1	11	2	90	2	484	2								
		7	More than 25 hrs	0	0	10	2	40	1	223	1								
			Total		90	100	541	100	4,370	100	21,577	100							
17. How much has your experience at this institution contributed to your knowledge, skills, and personal development in the following areas?																			
a. Writing clearly and effectively	pgwrite	1	Very little	8	9	48	9	559	13	2,331	11	2.7	2.8	-.03	2.7	.05	2.7	-.02	
		2	Some	31	34	168	31	1,297	29	6,143	28								
		3	Quite a bit	31	34	202	37	1,592	36	8,077	37								
		4	Very much	22	24	131	24	989	22	5,294	24								
		Total		92	100	549	100	4,437	100	21,845	100								
b. Speaking clearly and effectively	pgspeak	1	Very little	14	15	67	12	561	13	2,435	11	2.7	2.7	.01	2.7	.02	2.7	-.04	
		2	Some	20	22	167	31	1,309	30	6,242	29								
		3	Quite a bit	39	42	189	35	1,606	36	7,918	36								
		4	Very much	19	21	124	23	946	21	5,159	24								
		Total		92	100	547	100	4,422	100	21,754	100								
c. Thinking critically and analytically	pgthink	1	Very little	1	1	10	2	113	3	513	2	3.3	3.4	-.15	3.4	-.12	3.4	-.14	
		2	Some	16	17	70	13	514	12	2,428	11								
		3	Quite a bit	33	35	167	31	1,470	33	7,145	33								
		4	Very much	43	46	300	55	2,338	53	11,691	54								
		Total		93	100	547	100	4,435	100	21,777	100								
d. Analyzing numerical and statistical information	pganalyze	1	Very little	2	2	12	2	101	2	474	2	3.3	3.4 *	-.23	3.4 *	-.21	3.4	-.20	
		2	Some	13	14	55	10	456	10	2,278	10								
		3	Quite a bit	37	40	166	30	1,372	31	6,860	31								
		4	Very much	41	44	316	58	2,505	56	12,188	56								
		Total		93	100	549	100	4,434	100	21,800	100								

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k						
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Your seniors compared with				
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ		Mean	Effect size ⁿ	
														Mean	Effect size ⁿ		Mean	Effect size ⁿ
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	9	10	35	6	419	9	1,630	7	2.9	3.0	-.04	2.9	.01	3.0	-.06
		2	Some	19	20	127	23	967	22	4,711	22							
		3	Quite a bit	33	35	200	36	1,514	34	7,395	34							
		4	Very much	32	34	188	34	1,538	35	8,092	37							
		Total		93	100	550	100	4,438	100	21,828	100							
f. Working effectively with others	pgothers	1	Very little	12	13	23	4	203	5	920	4	2.8	3.0 *	-.30	3.0 *	-.30	3.1 **	-.37
		2	Some	21	23	114	21	956	22	4,212	19							
		3	Quite a bit	34	37	228	42	1,694	38	8,479	39							
		4	Very much	25	27	181	33	1,571	36	8,163	37							
		Total		92	100	546	100	4,424	100	21,774	100							
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	16	17	82	15	813	18	3,492	16	2.6	2.6	-.01	2.6	.01	2.6	-.04
		2	Some	26	28	174	32	1,304	29	6,546	30							
		3	Quite a bit	31	34	182	33	1,301	29	6,625	30							
		4	Very much	19	21	112	20	1,013	23	5,141	24							
		Total		92	100	550	100	4,431	100	21,804	100							
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	21	23	101	18	926	21	4,379	20	2.2	2.5 *	-.23	2.4	-.19	2.5 *	-.21
		2	Some	39	43	187	34	1,463	33	7,224	33							
		3	Quite a bit	19	21	164	30	1,211	27	6,033	28							
		4	Very much	12	13	95	17	828	19	4,143	19							
		Total		91	100	547	100	4,428	100	21,779	100							
i. Solving complex real-world problems	pgprobsolve	1	Very little	3	3	26	5	336	8	1,482	7	3.0	3.0	-.01	3.0	.01	3.0	-.03
		2	Some	22	24	138	25	965	22	4,619	21							
		3	Quite a bit	40	43	189	34	1,540	35	7,534	35							
		4	Very much	28	30	196	36	1,591	36	8,173	37							
		Total		93	100	549	100	4,432	100	21,808	100							
j. Being an informed and active citizen	pgcitizen	1	Very little	20	22	97	18	1,107	25	4,851	22	2.3	2.4	-.12	2.3	.01	2.4	-.06
		2	Some	36	39	211	39	1,577	36	7,801	36							
		3	Quite a bit	25	27	157	29	1,096	25	5,653	26							
		4	Very much	11	12	81	15	638	14	3,441	16							
		Total		92	100	546	100	4,418	100	21,746	100							

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Engineering

University of North Dakota

Seniors^a in Engineering

				Frequency Distributions								Statistical Comparisons ^k							
				UND				Plains Public				Carnegie Class				NSSE 2015			
				UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
18. How would you evaluate your entire educational experience at this institution?																			
	evalexp	1	Poor	2	2	17	3	169	4	776	4	3.2	3.1	.06	3.1	.04	3.2	-.01	
		2	Fair	14	15	76	14	644	14	2,963	14								
		3	Good	45	48	290	53	2,122	48	10,243	47								
		4	Excellent	32	34	168	30	1,523	34	7,920	36								
			Total	93	100	551	100	4,458	100	21,902	100								
19. If you could start over again, would you go to the same institution you are now attending?																			
	sameinst	1	Definitely no	0	0	21	4	241	5	1,121	5	3.2	3.1	.19	3.1	.13	3.2	.10	
		2	Probably no	16	17	78	14	583	13	2,862	13								
		3	Probably yes	38	41	276	50	1,951	44	9,250	42								
		4	Definitely yes	39	42	177	32	1,692	38	8,699	40								
			Total	93	100	552	100	4,467	100	21,932	100								

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Engineering University of North Dakota

Engineering

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	First-Year Students ^a								Seniors ^a							
			UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
20a. How many majors do you plan to complete? (Do not count minors.)	MAJnum	One	34	89	292	90	2,772	90	17,030	90	76	82	491	89	4,041	90	20,116	92
		More than one	4	11	31	10	312	10	1,800	10	17	18	61	11	428	10	1,862	8
		Total	38	100	323	100	3,084	100	18,830	100	93	100	552	100	4,469	100	21,978	100
First major or expected first major, in NSSE's default related-major categories. (Does not reflect any customization made for the Major Field Report)	MAJfirstcol <i>(Recoded from MAJfirst.)</i>	Arts & Humanities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Biological Sci., Agriculture, & Natural Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Physical Sci., Mathematics, & Computer Science	2	5	23	7	80	3	778	4	0	0	28	5	176	4	1,284	6
		Social Sciences	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Business	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Communications, Media, & Public Relations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Education	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Engineering	36	95	300	93	3,004	97	18,052	96	93	100	524	95	4,293	96	20,694	94
		Health Professions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Social Service Professions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		All Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Undecided, Undeclared	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	38	100	323	100	3,084	100	18,830	100	93	100	552	100	4,469	100	21,978	100
Second major or expected second major, in NSSE's default related-major categories. (Does not reflect any customization made for the Major Field Report)	MAJsecondcol <i>(Recoded from MAJsecond.)</i>	Arts & Humanities	1	50	2	7	38	12	173	10	4	24	3	5	32	8	138	7
		Biological Sci., Agriculture, & Natural Resources	0	0	2	7	11	4	104	6	0	0	5	8	24	6	125	7
		Physical Sci., Mathematics, & Computer Science	0	0	8	27	58	19	415	23	4	24	15	25	120	28	504	27
		Social Sciences	1	50	1	3	6	2	76	4	0	0	4	7	20	5	117	6
		Business	0	0	1	3	47	15	226	13	0	0	2	3	38	9	156	8
		Communications, Media, & Public Relations	0	0	0	0	2	1	8	0	0	0	0	0	2	0	9	0
		Education	0	0	1	3	6	2	24	1	0	0	1	2	3	1	23	1
		Engineering	0	0	11	37	119	38	609	34	4	24	24	39	166	39	631	34
		Health Professions	0	0	1	3	3	1	40	2	1	6	1	2	8	2	35	2
		Social Service Professions	0	0	0	0	7	2	25	1	0	0	2	3	4	1	20	1
		All Other	0	0	3	10	10	3	49	3	4	24	4	7	7	2	58	3
		Undecided, Undeclared	0	0	0	0	3	1	34	2	0	0	0	0	1	0	27	1
		Total	2	100	30	100	310	100	1,783	100	17	100	61	100	425	100	1,843	100

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Engineering University of North Dakota

Engineering

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	First-Year Students ^a								Seniors ^a							
			UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
21. What is your class level?	class	Freshman/First-year	35	92	288	89	2,765	90	17,016	91	2	2	2	0	19	0	63	0
		Sophomore	3	8	25	8	232	8	1,361	7	4	4	6	1	108	2	300	1
		Junior	0	0	2	1	42	1	174	1	29	31	98	18	671	15	2,582	12
		Senior	0	0	6	2	15	0	82	0	56	60	434	79	3,554	80	17,747	81
		Unclassified	0	0	1	0	11	0	70	0	2	2	11	2	86	2	1,180	5
		Total	38	100	322	100	3,065	100	18,703	100	93	100	551	100	4,438	100	21,872	100
22. Thinking about this current academic term, are you a full-time student?	fulltime	No	2	5	9	3	50	2	580	3	31	34	68	12	674	15	3,113	14
		Yes	36	95	312	97	2,996	98	18,064	97	61	66	483	88	3,741	85	18,671	86
		Total	38	100	321	100	3,046	100	18,644	100	92	100	551	100	4,415	100	21,784	100
23a. How many courses are you taking for credit this current academic term?	coursenum	0	0	0	1	0	8	0	104	1	0	0	4	1	74	2	574	3
		1	0	0	1	0	7	0	264	1	9	10	9	2	91	2	578	3
		2	1	3	3	1	18	1	164	1	9	10	28	5	196	4	986	5
		3	1	3	26	8	52	2	620	3	15	16	42	8	348	8	1,779	8
		4	2	5	130	40	705	23	4,354	23	18	20	162	29	1,241	28	5,730	26
		5	16	42	101	31	1,286	42	6,921	37	20	22	173	31	1,460	33	6,860	31
		6	12	32	36	11	596	19	4,166	22	11	12	72	13	609	14	3,347	15
		7 or more	6	16	24	7	386	13	2,096	11	10	11	60	11	418	9	1,988	9
Total	38	100	322	100	3,058	100	18,689	100	92	100	550	100	4,437	100	21,842	100		
b. Of these, how many are entirely online?	onlinenum	0	31	82	287	90	2,805	92	17,049	92	34	37	426	78	3,836	87	19,036	87
		1	5	13	26	8	189	6	1,214	7	19	21	92	17	449	10	2,105	10
		2	1	3	3	1	31	1	176	1	11	12	18	3	92	2	379	2
		3	1	3	2	1	8	0	64	0	16	18	11	2	28	1	130	1
		4	0	0	0	0	7	0	33	0	6	7	0	0	9	0	52	0
		5	0	0	0	0	2	0	29	0	1	1	0	0	3	0	20	0
		6	0	0	0	0	0	0	26	0	1	1	1	0	5	0	32	0
		7 or more	0	0	0	0	2	0	21	0	3	3	0	0	1	0	27	0
Total	38	100	318	100	3,044	100	18,612	100	91	100	548	100	4,423	100	21,781	100		
Collapsed recode of courses taken online (Based on responses to coursenum and onlinenum)	onlinecrscol	No courses taken online	31	82	287	90	2,805	92	17,034	92	34	37	426	78	3,835	87	19,022	87
		Some courses taken online	5	13	30	9	228	7	1,260	7	17	19	111	20	550	12	2,484	11
		All courses taken online	2	5	1	0	9	0	276	1	40	44	11	2	37	1	244	1
		Total	38	100	318	100	3,042	100	18,570	100	91	100	548	100	4,422	100	21,750	100

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Engineering University of North Dakota

Engineering

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	First-Year Students ^a								Seniors ^a							
			UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
24. What have most of your grades been up to now at this institution?	grades	C- or lower	0	0	8	2	41	1	369	2	2	2	1	0	25	1	94	0
		C	0	0	12	4	95	3	669	4	6	6	13	2	142	3	668	3
		C+	1	3	17	5	132	4	1,065	6	2	2	26	5	306	7	1,419	6
		B-	1	3	30	9	243	8	1,580	8	7	8	47	9	450	10	2,251	10
		B	11	29	67	21	575	19	3,661	20	22	24	125	23	934	21	4,735	22
		B+	4	11	59	18	556	18	3,402	18	15	16	109	20	813	18	4,305	20
		A-	9	24	57	18	601	20	3,562	19	14	15	96	17	781	18	3,845	18
		A	12	32	72	22	809	27	4,383	23	25	27	133	24	987	22	4,534	21
	Total	38	100	322	100	3,052	100	18,691	100	93	100	550	100	4,438	100	21,851	100	
25. Did you begin college at this institution or elsewhere?	begincol	Started here	32	84	276	86	2,840	93	17,267	93	36	39	316	57	2,713	61	14,752	68
		Started elsewhere	6	16	45	14	208	7	1,388	7	57	61	234	43	1,721	39	7,066	32
		Total	38	100	321	100	3,048	100	18,655	100	93	100	550	100	4,434	100	21,818	100
26. Since graduating from high school, which of the following types of schools have you attended <i>other than</i> the one you are now attending? (Select all that apply.)	attend_voc attend_com attend_col attend_none attend_other	Vocational or technical school	0	0	9	3	74	2	317	2	12	13	48	9	274	6	1,037	6
		Community or junior college	2	5	26	8	209	7	905	7	45	48	181	33	1,564	35	5,941	34
		4-year college or university other than this one	4	11	17	5	190	6	969	7	42	45	145	26	1,065	24	3,817	22
		None	29	76	262	82	2,516	83	11,469	83	31	33	254	46	2,111	48	8,601	49
		Other	3	8	12	4	103	3	504	4	6	6	15	3	137	3	611	4
27. What is the highest level of education you ever expect to complete?	edaspire	Some college but less than a bachelor's degree	1	3	18	6	78	3	489	3	10	11	17	3	129	3	546	3
		Bachelor's degree (B.A., B.S., etc.)	18	47	126	39	1,000	33	6,055	33	39	42	228	42	1,465	33	7,719	35
		Master's degree (M.A., M.S., etc.)	17	45	130	41	1,456	48	8,770	47	39	42	231	42	2,119	48	10,218	47
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	2	5	45	14	511	17	3,302	18	5	5	72	13	711	16	3,307	15
		Total	38	100	319	100	3,045	100	18,616	100	93	100	548	100	4,424	100	21,790	100

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Engineering

University of North Dakota

Engineering

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	First-Year Students ^a								Seniors ^a							
			UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
28. What is the highest level of education completed by either of your parents (or those who raised you)?	parented	Did not finish high school	1	3	4	1	124	4	561	4	3	3	15	3	196	4	703	4
		High school diploma or G.E.D.	2	5	41	13	406	13	1,678	12	12	13	77	14	645	15	2,358	13
		Attended college, but did not complete degree	3	8	37	12	242	8	1,145	8	9	10	51	9	344	8	1,504	9
		Associate's degree (A.A., A.S., etc.)	4	11	45	14	248	8	1,223	9	20	22	80	15	401	9	1,675	10
		Bachelor's degree (B.A., B.S., etc.)	16	42	108	34	1,031	34	4,559	33	28	30	184	34	1,440	33	5,815	33
		Master's degree (M.A., M.S., etc.)	8	21	68	21	733	24	3,561	26	10	11	104	19	1,015	23	3,898	22
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	4	11	18	6	264	9	1,210	9	11	12	36	7	383	9	1,523	9
		Total	38	100	321	100	3,048	100	13,937	100	93	100	547	100	4,424	100	17,476	100
First-generation status (No parent holds a bachelor's degree)	firstgen	Not first-generation	28	74	194	60	2,028	67	12,472	67	49	53	324	59	2,838	64	14,043	64
	(Recoded from parented)	First-generation	10	26	127	40	1,020	33	6,164	33	44	47	223	41	1,586	36	7,760	36
	Total	38	100	321	100	3,048	100	18,636	100	93	100	547	100	4,424	100	21,803	100	
29. What is your gender identity?	genderid	Man	28	74	246	76	2,072	68	13,252	71	69	74	407	74	3,234	73	15,942	73
		Woman	9	24	74	23	920	30	5,110	27	22	24	132	24	1,116	25	5,435	25
		Another gender identity	0	0	0	0	13	0	57	0	1	1	1	0	8	0	61	0
		I prefer not to respond	1	3	2	1	42	1	219	1	1	1	10	2	68	2	356	2
		Total	38	100	322	100	3,047	100	18,638	100	93	100	550	100	4,426	100	21,794	100
30. Enter your year of birth (e.g., 1994):	agecat (Recoded from the information entered in birthyear)	19 or younger	34	89	280	88	2,772	91	16,130	87	3	3	3	1	27	1	109	1
		20-23	1	3	25	8	201	7	1,803	10	42	46	373	68	2,859	65	15,203	70
		24-29	3	8	6	2	34	1	389	2	15	16	97	18	980	22	4,122	19
		30-39	0	0	7	2	18	1	178	1	23	25	46	8	401	9	1,616	7
		40-55	0	0	2	1	6	0	67	0	9	10	23	4	127	3	544	3
		Over 55	0	0	0	0	1	0	4	0	0	0	3	1	10	0	65	0
Total	38	100	320	100	3,032	100	18,571	100	92	100	545	100	4,404	100	21,659	100		
31a. Are you an international student?	internat	No	35	92	288	90	2,783	92	12,643	91	89	97	503	92	4,094	93	16,249	93
		Yes	3	8	31	10	247	8	1,223	9	3	3	44	8	306	7	1,139	7
		Total	38	100	319	100	3,030	100	13,866	100	92	100	547	100	4,400	100	17,388	100
International student country of citizenship, collapsed into regions by NSSE. Responses to country are in the data file. U.S. (domestic) students did not receive this question.	countrycol (Recoded from country.)	Africa Sub-Saharan	1	33	6	23	22	12	71	11	1	33	2	5	17	9	40	8
		Asia	0	0	11	42	66	35	232	37	0	0	23	62	76	41	215	43
		Canada	2	67	0	0	6	3	12	2	1	33	0	0	3	2	19	4
		Europe	0	0	0	0	13	7	32	5	1	33	2	5	10	5	41	8
		Latin America and Caribbean	0	0	3	12	41	22	133	21	0	0	2	5	37	20	88	18
		Middle East and North Africa	0	0	6	23	40	21	139	22	0	0	8	22	42	23	91	18
		Oceania	0	0	0	0	0	0	5	1	0	0	0	0	1	1	2	0
		Unknown region/uncoded	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
		Total	3	100	26	100	188	100	625	100	3	100	37	100	186	100	496	100

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Engineering University of North Dakota

Engineering

			First-Year Students ^a								Seniors ^a								
			UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015		
Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
32. What is your racial or ethnic identification? (Select all that apply.)	re_amind	American Indian or Alaska Native	0	0	2	1	70	2	258	2	1	1	6	1	82	2	277	2	
	re_asian	Asian	1	3	25	8	352	12	1,840	13	4	4	56	10	439	10	2,014	12	
	re_black	Black or African American	1	3	23	7	177	6	965	7	7	8	18	3	244	6	945	5	
	re_latino	Hispanic or Latino	0	0	8	2	446	15	1,852	13	5	5	16	3	594	13	1,846	11	
	re_pacific	Native Hawaiian or Other Pacific Islander	0	0	1	0	25	1	146	1	0	0	0	0	41	1	189	1	
	re_white	White	35	92	254	79	2,059	68	9,243	66	77	83	441	80	3,037	69	12,277	70	
	re_other	Other	0	0	11	3	90	3	454	3	2	2	7	1	125	3	474	3	
	re_pnr	I prefer not to respond	1	3	11	3	121	4	542	4	3	3	21	4	219	5	882	5	
	Racial or ethnic identification	re_all	American Indian or Alaska Native	0	0	1	0	18	1	50	0	0	0	1	0	20	0	61	0
		(Recoded from re_amind through re_pnr where each student is represented only once)	Asian	1	3	19	6	269	9	1,466	11	3	3	53	10	359	8	1,607	9
re_amind		Black or African American	1	3	20	6	142	5	756	5	6	6	17	3	200	5	779	4	
re_pnr		Hispanic or Latino	0	0	7	2	327	11	1,326	10	3	3	8	1	460	10	1,346	8	
re_pnr		Native Hawaiian/Other Pac. Islander	0	0	0	0	3	0	41	0	0	0	0	0	9	0	51	0	
re_pnr		White	35	92	243	75	1,840	60	8,291	59	73	78	425	78	2,789	63	11,268	65	
re_pnr		Other	0	0	9	3	66	2	308	2	0	0	6	1	83	2	304	2	
re_pnr		Multiracial	0	0	12	4	261	9	1,160	8	5	5	17	3	283	6	1,160	7	
	I prefer not to respond	1	3	11	3	121	4	542	4	3	3	21	4	219	5	882	5		
	Total	38	100	322	100	3,047	100	13,940	100	93	100	548	100	4,422	100	17,458	100		
33. Are you a member of a social fraternity or sorority?	greek	No	35	95	299	93	2,761	91	17,310	93	86	93	469	86	3,919	89	19,698	91	
		Yes	2	5	23	7	280	9	1,259	7	6	7	78	14	489	11	2,032	9	
		Total	37	100	322	100	3,041	100	18,569	100	92	100	547	100	4,408	100	21,730	100	
34. Which of the following best describes where you are living while attending college?	living	Dormitory or other campus housing (not fraternity or sorority house)	32	84	218	68	2,029	67	9,674	70	16	17	30	5	415	9	2,875	16	
		Fraternity or sorority house	0	0	2	1	35	1	104	1	1	1	17	3	93	2	401	2	
		Residence (house, apartment, etc.) within walking distance to the institution	3	8	30	9	256	8	1,211	9	17	18	173	32	1,475	33	5,531	32	
		Residence (house, apartment, etc.) farther than walking distance to the institution	3	8	63	20	652	21	2,639	19	47	51	318	58	2,344	53	8,235	47	
		None of the above	0	0	8	2	69	2	284	2	12	13	9	2	100	2	406	2	
		Total	38	100	321	100	3,041	100	13,912	100	93	100	547	100	4,427	100	17,448	100	
35. Are you a student-athlete on a team sponsored by your institution's athletics department?	athlete	No	36	95	294	91	2,870	95	17,059	92	93	100	528	97	4,254	97	20,629	95	
		Yes	2	5	28	9	165	5	1,482	8	0	0	17	3	137	3	1,042	5	
		Total	38	100	322	100	3,035	100	18,541	100	93	100	545	100	4,391	100	21,671	100	

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Engineering University of North Dakota

Engineering

			First-Year Students ^a								Seniors ^a							
			UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
36. Are you a current or former member of the U.S. Armed Forces, Reserves, or National Guard?	veteran	No	36	95	314	98	2,983	98	13,002	94	75	81	502	92	4,115	94	15,847	91
		Yes	2	5	6	2	49	2	864	6	18	19	42	8	286	6	1,517	9
		Total	38	100	320	100	3,032	100	13,866	100	93	100	544	100	4,401	100	17,364	100
37a. Have you been diagnosed with any disability or impairment?	disability	No	36	95	292	91	2,751	90	16,893	91	84	90	483	88	3,966	90	19,575	90
		Yes	2	5	20	6	197	6	1,131	6	6	6	43	8	320	7	1,523	7
		I prefer not to respond	0	0	10	3	94	3	583	3	3	3	21	4	134	3	665	3
		Total	38	100	322	100	3,042	100	18,607	100	93	100	547	100	4,420	100	21,763	100
b. [If answered "yes"] Which of the following has been diagnosed? (Select all that apply.)	dis_sense	A sensory impairment (vision or hearing)	1	50	1	5	41	21	212	19	1	17	7	16	50	16	259	17
	dis_mobility	A mobility impairment	0	0	1	5	10	5	71	6	1	17	5	12	31	10	150	10
	dis_learning	A learning disability (e.g., ADHD, dyslexia)	0	0	10	50	113	57	595	53	3	50	17	40	165	52	733	48
	dis_mental	A mental health disorder	0	0	6	30	37	19	228	20	0	0	14	33	72	23	390	26
	dis_other	A disability or impairment not listed above	1	50	5	25	33	17	209	19	1	17	10	23	79	25	343	23
Disability or impairment	disability_all	A sensory impairment	1	3	1	0	28	1	161	1	1	1	2	0	26	1	158	1
	(Recoded from disability and dis_sense through dis_other where each student is represented only once)	A mobility impairment	0	0	0	0	6	0	49	0	1	1	4	1	13	0	76	0
		A learning disability	0	0	7	2	89	3	471	3	3	3	16	3	128	3	542	2
		A mental health disorder	0	0	5	2	21	1	133	1	0	0	8	1	42	1	226	1
		A disability or impairment not listed	1	3	4	1	22	1	159	1	1	1	7	1	48	1	234	1
		More than one disability or impairment	0	0	3	1	31	1	156	1	0	0	6	1	61	1	278	1
		No disability or impairment	36	95	292	91	2,751	90	16,893	91	84	90	483	88	3,966	90	19,575	90
		Prefer not to respond	0	0	10	3	94	3	583	3	3	3	21	4	134	3	665	3
	Total	38	100	322	100	3,042	100	18,605	100	93	100	547	100	4,418	100	21,754	100	
38. Which of the following best describes your sexual orientation? (Question administered per institution request)	sexorient14	Heterosexual	--	--	111	85	976	88	5,577	88	--	--	282	88	1,447	88	7,205	89
		Gay	--	--	1	1	9	1	58	1	--	--	7	2	17	1	109	1
		Lesbian	--	--	0	0	3	0	22	0	--	--	2	1	12	1	43	1
		Bisexual	--	--	3	2	26	2	137	2	--	--	3	1	32	2	153	2
		Another sexual orientation	--	--	4	3	9	1	66	1	--	--	2	1	13	1	52	1
		Questioning or unsure	--	--	3	2	18	2	91	1	--	--	3	1	9	1	59	1
		I prefer not to respond	--	--	9	7	73	7	371	6	--	--	22	7	108	7	504	6
		Total	--	--	131	100	1,114	100	6,322	100	--	--	321	100	1,638	100	8,125	100

NSSE 2015 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Engineering

University of North Dakota

Engineering

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	First-Year Students ^a								Seniors ^a							
			UND		Plains Public		Carnegie Class		NSSE 2015		UND		Plains Public		Carnegie Class		NSSE 2015	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
Institution-reported information																		
(Variables provided by your institution in your NSSE population file.)																		
Institution-reported sex	IRsex	Female	9	24	74	23	948	31	5,248	28	22	24	133	24	1,135	25	5,561	25
		Male	29	76	248	77	2,136	69	13,581	72	71	76	419	76	3,334	75	16,417	75
		Total	38	100	322	100	3,084	100	18,829	100	93	100	552	100	4,469	100	21,978	100
Institution-reported race or ethnicity	IRrace	American Indian or Alaska Native	0	0	1	0	13	0	55	0	0	0	2	0	16	0	73	0
		Asian	1	3	4	1	138	5	874	7	2	2	20	4	178	5	1,045	7
		Black or African American	0	0	14	5	131	5	714	6	4	4	14	3	181	5	714	5
		Hispanic or Latino	0	0	6	2	336	13	1,352	11	6	6	10	2	432	11	1,404	9
		Native Hawaiian/Other Pac. Islander	0	0	0	0	11	0	37	0	0	0	0	0	18	0	52	0
		White	34	89	241	79	1,681	63	7,535	61	73	78	430	79	2,622	68	10,449	67
		Other	0	0	0	0	0	0	4	0	0	0	0	0	0	0	1	0
		Foreign or nonresident alien	3	8	26	9	209	8	854	7	4	4	45	8	239	6	742	5
		Two or more races/ethnicities	0	0	7	2	111	4	428	3	1	1	12	2	92	2	422	3
		Unknown	0	0	6	2	49	2	463	4	3	3	12	2	100	3	616	4
		Total	38	100	305	100	2,679	100	12,316	100	93	100	545	100	3,878	100	15,518	100
Institution-reported class level	IRclass	Freshman/First-Year	38	100	323	100	3,084	100	18,830	100	0	0	0	0	0	0	0	0
		Sophomore	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Junior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Senior	0	0	0	0	0	0	0	0	93	100	552	100	4,469	100	21,978	100
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	38	100	323	100	3,084	100	18,830	100	93	100	552	100	4,469	100	21,978	100
Institution-reported first-time first-year (FTFY) status	IRftfy	No	1	3	37	11	255	8	2,240	12	93	100	547	99	4,448	100	21,862	99
		Yes	37	97	286	89	2,829	92	16,590	88	0	0	5	1	21	0	116	1
		Total	38	100	323	100	3,084	100	18,830	100	93	100	552	100	4,469	100	21,978	100
Institution-reported enrollment status	IRenrollment	Not full-time	2	5	12	4	70	2	469	2	42	45	71	13	608	14	3,232	15
		Full-time	36	95	311	96	3,014	98	18,361	98	51	55	481	87	3,861	86	18,746	85
		Total	38	100	323	100	3,084	100	18,830	100	93	100	552	100	4,469	100	21,978	100

Endnotes

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

Key to symbols:

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

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

Reference: Rocconi, L., & Gonyea, R. M. (2015). Contextualizing student engagement effect sizes: An empirical analysis. Paper presented at the Association for Institutional Research Annual Forum, Denver, CO.