
University of Minnesota Duluth

NSSE 2014 Major Field Report, Part II

Comparisons to Other Institutions

Bio, Agric, & Nat Res

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

The Major Field Report category 'Bio, Agric, & Nat Res' includes the following majors: Biology (general); Agriculture; Biochemistry or biophysics; Biomedical science; Botany; Cell and molecular biology; Environmental science/studies; Marine science; Microbiology or bacteriology; Natural resources and conservation; Natural science; Neuroscience; Physiology and developmental biology; Zoology; Other agriculture and natural resources; Other biological sciences.

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: Bio, Agric, & Nat Res.

NSSE results included in MFR, Part II

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

Majors

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 categories. Institutions choosing not to customize their major categories receive NSSE's ten major field categories. 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. First-year students' majors may include undeclared but intended majors and much of the first-year experience may take place outside of the major field. As a result, first-year results should be interpreted with caution.

Technical Requirements

Major categories 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 category 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 adapted from the former Benchmarks of Effective Educational Practice. 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 Bio, Agric, & Nat Res			Seniors in Bio, Agric, & Nat Res		
		Your first-year students compared with UMD Peers	Your first-year students compared with Competitors	Your first-year students compared with National Comparison	Your seniors compared with UMD Peers	Your seniors compared with Competitors	Your seniors compared with National Comparison
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	▼	--	--	▼	▼	▼

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Engagement Indicators: Bio, Agric, & Nat Res

University of Minnesota Duluth

First-year students^a in Bio, Agric, & Nat Res

	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												
UMD (N = 98)	36.8	12.5	1.26	15	30	35	45	60				
UMD Peers	39.6	13.5	.72	20	30	40	50	60	450	-2.7		-.205
Competitors	40.6	13.1	.60	20	30	40	50	60	582	-3.7	**	-.287
National Comparison	38.9	13.5	.54	20	30	40	50	60	721	-2.1		-.155
Reflective & Integrative Learning												
UMD (N = 102)	32.1	11.6	1.15	14	23	31	40	51				
UMD Peers	36.5	12.9	.68	17	29	34	46	60	461	-4.4	**	-.351
Competitors	35.9	11.7	.52	20	29	34	43	60	602	-3.9	**	-.333
National Comparison	36.0	12.4	.49	17	29	37	43	57	744	-3.9	**	-.318
Learning Strategies												
UMD (N = 101)	39.7	11.5	1.14	20	33	40	47	60				
UMD Peers	41.8	13.8	.73	20	33	40	53	60	188	-2.0		-.152
Competitors	40.1	13.7	.61	20	27	40	53	60	163	-.4		-.031
National Comparison	39.7	13.5	.54	20	27	40	53	60	148	.1		.006
Quantitative Reasoning												
UMD (N = 100)	31.3	15.3	1.53	7	20	33	40	60				
UMD Peers	30.0	16.1	.84	0	20	27	40	60	461	1.3		.079
Competitors	30.5	14.8	.66	7	20	27	40	60	601	.8		.051
National Comparison	28.9	15.6	.62	0	20	27	40	60	737	2.4		.152
Learning with Peers												
Collaborative Learning												
UMD (N = 100)	36.6	14.0	1.40	15	25	35	45	60				
UMD Peers	34.4	13.2	.70	15	25	35	45	60	459	2.2		.165
Competitors	36.6	13.5	.61	15	25	35	45	60	595	.0		-.003
National Comparison	34.0	13.6	.54	15	25	30	45	60	731	2.6		.193
Discussions with Diverse Others												
UMD (N = 102)	35.6	15.3	1.51	10	25	35	45	60				
UMD Peers	40.9	15.5	.81	15	30	40	55	60	463	-5.2	**	-.339
Competitors	40.1	14.9	.67	15	30	40	55	60	598	-4.5	**	-.298
National Comparison	40.1	15.7	.62	15	30	40	55	60	741	-4.5	**	-.284

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Engagement Indicators: Bio, Agric, & Nat Res

University of Minnesota Duluth

First-year students^a in Bio, Agric, & Nat Res

	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												
UMD (N = 100)	16.3	11.1	1.11	0	10	15	20	40				
UMD Peers	19.8	13.8	.73	0	10	15	25	45	194	-3.6	**	-.268
Competitors	19.2	13.9	.62	0	10	15	25	50	169	-2.9	*	-.217
National Comparison	20.5	13.5	.54	0	10	20	25	45	733	-4.3	**	-.324
Effective Teaching Practices												
UMD (N = 100)	38.5	11.0	1.10	20	31	40	48	56				
UMD Peers	41.5	12.1	.63	20	32	40	52	60	463	-3.1	*	-.258
Competitors	39.5	12.2	.54	20	32	40	48	60	601	-1.0		-.085
National Comparison	41.7	12.3	.48	20	32	40	52	60	743	-3.3	*	-.269
Campus Environment												
Quality of Interactions												
UMD (N = 101)	40.7	12.3	1.22	18	34	42	50	60				
UMD Peers	43.1	10.8	.58	22	38	44	50	60	447	-2.4		-.215
Competitors	42.6	10.4	.47	23	36	44	50	58	589	-1.9		-.174
National Comparison	42.4	12.1	.48	20	34	44	50	60	730	-1.6		-.134
Supportive Environment												
UMD (N = 100)	36.0	12.5	1.25	18	30	35	43	60				
UMD Peers	40.1	13.5	.71	18	30	40	50	60	460	-4.1	**	-.310
Competitors	38.4	12.8	.57	18	30	40	48	60	597	-2.4		-.191
National Comparison	38.3	13.3	.52	18	30	38	48	60	743	-2.4		-.178

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Engagement Indicators: Bio, Agric, & Nat Res

University of Minnesota Duluth

Seniors^a in

Bio, Agric, & Nat Res

	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												
UMD (N = 117)	35.0	12.7	1.17	15	25	35	45	60				
UMD Peers	41.0	14.3	.67	20	30	40	55	60	571	-6.0	***	-.433
Competitors	39.3	13.4	.47	20	30	40	50	60	910	-4.3	**	-.323
National Comparison	39.9	13.7	.44	15	30	40	50	60	1,108	-4.9	***	-.361
Reflective & Integrative Learning												
UMD (N = 124)	33.5	11.8	1.06	17	26	31	40	57				
UMD Peers	37.8	12.3	.57	20	29	37	46	60	590	-4.3	***	-.349
Competitors	36.3	11.9	.42	17	29	37	43	60	929	-2.7	*	-.230
National Comparison	37.3	11.9	.37	17	29	37	46	60	1,141	-3.8	***	-.321
Learning Strategies												
UMD (N = 123)	36.6	12.9	1.16	20	27	33	47	60				
UMD Peers	41.3	14.0	.65	20	33	40	53	60	584	-4.7	***	-.338
Competitors	38.9	14.0	.50	20	27	40	47	60	917	-2.3		-.165
National Comparison	40.2	14.5	.46	13	27	40	53	60	1,118	-3.6	**	-.248
Quantitative Reasoning												
UMD (N = 124)	30.2	13.9	1.25	7	20	27	40	53				
UMD Peers	36.5	15.5	.72	13	27	33	47	60	587	-6.4	***	-.421
Competitors	34.7	15.5	.55	7	20	33	47	60	928	-4.5	**	-.296
National Comparison	36.9	15.4	.48	13	27	40	47	60	1,136	-6.7	***	-.442
Learning with Peers												
Collaborative Learning												
UMD (N = 121)	34.8	12.9	1.17	15	25	35	45	60				
UMD Peers	36.9	13.6	.63	15	25	35	45	60	579	-2.1		-.156
Competitors	36.0	13.5	.48	15	25	35	45	60	920	-1.2		-.089
National Comparison	37.0	13.1	.41	15	30	35	45	60	1,121	-2.2		-.167
Discussions with Diverse Others												
UMD (N = 125)	35.1	15.0	1.34	10	25	35	45	60				
UMD Peers	41.6	15.0	.70	20	30	40	55	60	585	-6.5	***	-.434
Competitors	38.5	14.8	.52	15	30	40	50	60	924	-3.4	*	-.228
National Comparison	39.6	15.2	.48	15	30	40	50	60	1,132	-4.6	**	-.300

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Engagement Indicators: Bio, Agric, & Nat Res

University of Minnesota Duluth

Seniors^a in

Bio, Agric, & Nat Res

	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												
UMD (N = 121)	21.4	15.1	1.37	0	10	20	30	45				
UMD Peers	26.2	16.4	.76	0	15	25	35	60	582	-4.8	**	-.297
Competitors	23.8	15.1	.54	0	15	20	35	50	912	-2.4		-.160
National Comparison	27.3	15.6	.49	5	15	25	40	60	1,125	-5.9	***	-.378
Effective Teaching Practices												
UMD (N = 125)	35.7	11.3	1.01	20	28	36	44	56				
UMD Peers	40.9	12.4	.57	20	32	40	48	60	590	-5.1	***	-.424
Competitors	39.4	12.4	.43	20	30	40	48	60	934	-3.7	**	-.301
National Comparison	42.2	12.7	.40	20	35	40	52	60	165	-6.5	***	-.522
Campus Environment												
Quality of Interactions												
UMD (N = 120)	40.9	10.0	.91	26	36	42	48	55				
UMD Peers	42.4	11.5	.54	20	36	44	50	60	210	-1.5		-.133
Competitors	41.7	11.1	.40	22	34	44	50	58	168	-.8		-.072
National Comparison	43.6	10.8	.34	23	38	45	50	60	1,117	-2.7	**	-.252
Supportive Environment												
UMD (N = 123)	29.2	12.3	1.11	10	20	30	38	55				
UMD Peers	33.2	13.6	.63	10	23	35	41	58	585	-4.0	**	-.297
Competitors	33.3	12.6	.44	13	25	33	40	58	928	-4.1	***	-.325
National Comparison	34.3	13.0	.41	13	25	35	43	58	1,137	-5.1	***	-.391

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

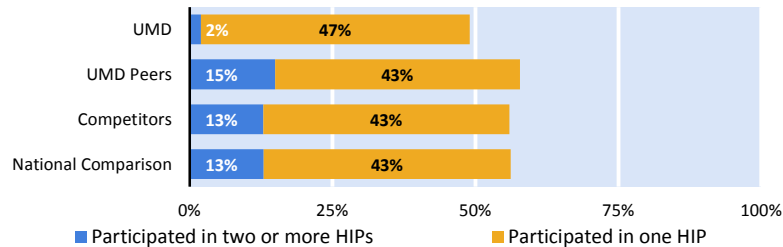
High-Impact Practices: Bio, Agric, & Nat Res

University of Minnesota Duluth

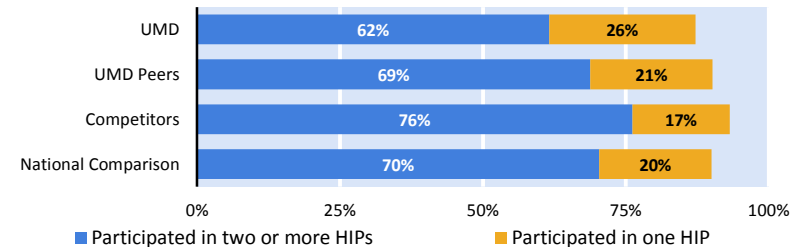
Overall HIP Participation^a

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 Bio, Agric, & Nat Res



Seniors in Bio, Agric, & Nat Res



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.

	UMD			UMD Peers			Competitors			National Comparison		
		%		% ⁱ	Effect size ^j		% ⁱ	Effect size ^j		% ⁱ	Effect size ^j	
<i>First-Year Students in Bio, Agric, & Nat Res</i>												
11c. Learning community	5			18 ***	-.44		19 ***	-.46		17 **	-.40	
12. Service-learning	42			51	-.17		41	.03		49	-.14	
11e. Research with faculty	6			5	.03		11	-.19		5	.06	
Participated in at least one	49			58	-.18		56	-.14		56	-.14	
Participated in two or more	2			15 ***	-.51		13 **	-.45		13 **	-.46	
<i>Seniors in Bio, Agric, & Nat Res</i>												
11c. Learning community	20			19	.01		26	-.15		25	-.12	
12. Service-learning	61			56	.09		52	.17		60	.02	
11e. Research with faculty	35			47 *	-.25		56 ***	-.43		47 *	-.24	
11a. Internship or field exp.	36			51 **	-.30		49 **	-.27		55 ***	-.39	
11d. Study abroad	15			14	.05		23	-.20		16	-.03	
11f. Culminating senior exp.	40			55 **	-.30		61 ***	-.41		47	-.13	
Participated in at least one	87			90	-.09		93 *	-.20		90	-.09	
Participated in two or more	62			69	-.15		76 ***	-.32		70 *	-.19	

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

First-Year Students^a in Bio, Agric, & Nat Res

First-Year Students ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k								
				UMD		UMD Peers		Competitors		National Comparison		UMD		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
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	2	15	4	13	3	19	3	2.6	2.7	-.13	2.9 *** ▼	-.37	2.8	-.20
				2	Sometimes	54	53	157	43	153	30	253	39							
				3	Often	27	27	109	30	208	41	236	36							
				4	Very often	18	18	84	23	131	26	141	22							
				Total		101	100	365	100	505	100	649	100							
b. Prepared two or more drafts of a paper or assignment before turning it in		drafts		1	Never	16	16	56	15	76	15	74	11	2.5	2.5	-.06	2.5	-.03	2.6	-.16
				2	Sometimes	38	38	129	35	186	37	231	36							
				3	Often	32	32	117	32	163	32	214	33							
				4	Very often	15	15	64	17	78	16	126	20							
				Total		101	100	366	100	503	100	645	100							
c. Come to class without completing readings or assignments		unpreparedr (Reverse-coded version of unprepared created by NSSE.)		1	Very often	4	4	18	5	22	4	25	4	3.1	3.1	-.01	3.1	.02	3.1	.00
				2	Often	10	10	28	8	53	11	76	12							
				3	Sometimes	59	59	218	60	294	58	356	56							
				4	Never	27	27	100	27	134	27	184	29							
				Total		100	100	364	100	503	100	641	100							
d. Attended an art exhibit, play or other arts performance (dance, music, etc.)		attendart		1	Never	42	42	108	30	156	31	236	36	1.9	2.0	-.16	1.9	-.07	1.9	-.05
				2	Sometimes	33	33	173	48	248	50	271	42							
				3	Often	18	18	51	14	69	14	93	14							
				4	Very often	6	6	32	9	28	6	47	7							
				Total		99	100	364	100	501	100	647	100							
e. Asked another student to help you understand course material		CLaskhelp		1	Never	5	5	13	4	20	4	36	6	2.9	2.8	.14	2.8	.06	2.7	.18
				2	Sometimes	30	30	141	39	166	33	243	38							
				3	Often	39	39	136	37	198	40	232	36							
				4	Very often	27	27	76	21	117	23	131	20							
				Total		101	100	366	100	501	100	642	100							
f. Explained course material to one or more students		CLexplain		1	Never	3	3	8	2	9	2	20	3	3.0	2.8	.19	2.9	.08	2.8	.21
				2	Sometimes	27	27	127	35	153	31	220	34							
				3	Often	41	41	152	42	215	43	273	42							
				4	Very often	30	30	77	21	124	25	133	21							
				Total		101	100	364	100	501	100	646	100							

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Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

First-Year Students^a in Bio, Agric, & Nat Res

First-Year Students ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k									
				UMD		UMD Peers		Competitors		National Comparison		UMD		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	7	7	30	8	35	7	61	9	2.8	2.7	.14	2.8	.00	2.7	.14			
		2	Sometimes	32	31	145	40	177	35	237	37										
		3	Often	39	38	111	30	156	31	213	33										
		4	Very often	24	24	80	22	137	27	136	21										
		Total	102	100	366	100	505	100	647	100											
h. Worked with other students on course projects or assignments	CLproject	1	Never	6	6	21	6	11	2	39	6	2.7	2.6	.06	2.8	-.16	2.6	.06			
		2	Sometimes	37	37	153	42	180	36	261	41										
		3	Often	40	40	128	35	203	40	233	36										
		4	Very often	18	18	64	17	111	22	110	17										
		Total	101	100	366	100	505	100	643	100											
i. Gave a course presentation	present	1	Never	29	29	92	25	115	23	144	22	2.0	2.0	-.08	2.1	-.15	2.2 *	▽			
		2	Sometimes	52	51	191	52	257	51	290	45										
		3	Often	14	14	62	17	100	20	155	24										
		4	Very often	6	6	21	6	32	6	56	9										
		Total	101	100	366	100	504	100	645	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	5	5	13	4	11	2	35	5	2.7	2.8	-.08	2.8	-.15	2.7	-.07			
		2	Sometimes	35	34	143	39	176	35	229	35										
		3	Often	49	48	128	35	219	43	248	38										
		4	Very often	13	13	80	22	98	19	134	21										
		Total	102	100	364	100	504	100	646	100											
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	9	9	27	8	32	6	60	9	2.4	▽	2.7 **	-.33	▽	2.6 **	-.30	▽	2.6 **	-.26
		2	Sometimes	55	54	137	38	211	42	242	38										
		3	Often	29	28	126	35	171	34	236	37										
		4	Very often	9	9	68	19	87	17	101	16										
		Total	102	100	358	100	501	100	639	100											
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	25	25	39	11	52	10	76	12	2.1	▽	2.6 ***	-.47	▽	2.5 ***	-.38	▽	2.5 ***	-.42
		2	Sometimes	45	44	143	40	227	45	254	40										
		3	Often	24	24	109	30	157	31	215	34										
		4	Very often	8	8	67	19	65	13	96	15										
		Total	102	100	358	100	501	100	641	100											

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

First-Year Students^a in Bio, Agric, & Nat Res

First-Year Students ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k								
				UMD		UMD Peers		Competitors		National Comparison		UMD		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
d. Examined the strengths and weaknesses of your own views on a topic or issue	RIownview	1	Never	8	8	18	5	19	4	31	5	2.5	2.8 *	-0.29	2.7 *	-0.24	2.8 **	-0.31		
		2	Sometimes	44	43	115	32	189	38	202	31									
		3	Often	37	36	159	44	199	40	282	44									
		4	Very often	13	13	69	19	93	19	128	20									
		Total	102	100	361	100	500	100	643	100										
e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	RIperspect	1	Never	3	3	16	4	12	2	25	4	2.7	2.9 *	-0.28	2.8	-0.15	2.9 *	-0.24		
		2	Sometimes	40	40	93	26	178	35	172	27									
		3	Often	42	42	149	41	202	40	285	45									
		4	Very often	16	16	102	28	112	22	158	25									
		Total	101	100	360	100	504	100	640	100										
f. Learned something that changed the way you understand an issue or concept	RInewview	1	Never	3	3	9	3	13	3	16	2	2.8	2.9	-0.15	2.9	-0.13	2.9	-0.12		
		2	Sometimes	35	35	102	28	142	28	182	28									
		3	Often	42	42	156	43	225	45	296	46									
		4	Very often	21	21	93	26	120	24	149	23									
		Total	101	100	360	100	500	100	643	100										
g. Connected ideas from your courses to your prior experiences and knowledge	RIconnect	1	Never	2	2	5	1	1	0	9	1	3.0	3.2	-0.21	3.2 **	-0.34	3.1	-0.21		
		2	Sometimes	23	23	71	20	77	15	107	17									
		3	Often	49	49	150	41	227	45	307	48									
		4	Very often	26	26	137	38	195	39	216	34									
		Total	100	100	363	100	500	100	639	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	20	20	82	23	84	17	97	15	2.0	2.2 **	-0.26	2.2 **	-0.28	2.3 ***	-0.37		
		2	Sometimes	63	62	164	45	267	53	319	50									
		3	Often	16	16	70	19	103	21	158	25									
		4	Very often	2	2	48	13	48	10	68	11									
		Total	101	100	364	100	502	100	642	100										
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	56	56	209	58	263	52	319	50	1.6	1.6	-0.04	1.7	-0.12	1.7	-0.16		
		2	Sometimes	30	30	94	26	155	31	209	33									
		3	Often	12	12	43	12	48	10	78	12									
		4	Very often	2	2	16	4	35	7	37	6									
		Total	100	100	362	100	501	100	643	100										

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University of Minnesota Duluth

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First-Year Students ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k								
				UMD		UMD Peers		Competitors		National Comparison		UMD		Your first-year students compared with						
Item wording or description		Variable name ⁱ		Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	40	40	105	29	154	31	193	30	1.8	2.0 *	-0.24	2.0	-0.21	2.0	-0.20		
		2	Sometimes	42	42	165	46	230	46	299	47									
		3	Often	16	16	66	18	82	16	112	17									
		4	Very often	3	3	25	7	36	7	37	6									
		Total	101	100	361	100	502	100	641	100										
d. Discussed your academic performance with a faculty member	SFperform	1	Never	33	33	93	26	175	35	162	25	1.8	2.1 **	-0.32	1.9	-0.08	2.1 **	-0.29		
		2	Sometimes	52	51	166	46	226	45	307	48									
		3	Often	15	15	73	20	63	13	122	19									
		4	Very often	1	1	30	8	34	7	47	7									
		Total	101	100	362	100	498	100	638	100										
4. During the current school year, how much has your coursework emphasized the following?																				
a. Memorizing course material	memorize	1	Very little	1	1	8	2	5	1	11	2	3.2	3.1	0.07	3.1	0.12	3.1	0.08		
		2	Some	17	17	75	21	103	21	128	20									
		3	Quite a bit	49	48	154	42	243	49	293	46									
		4	Very much	35	34	127	35	149	30	210	33									
		Total	102	100	364	100	500	100	642	100										
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	3	3	5	1	8	2	13	2	3.1	3.2	-0.06	3.3	-0.17	3.0	0.15		
		2	Some	15	15	58	16	62	12	148	23									
		3	Quite a bit	49	48	166	46	217	44	290	45									
		4	Very much	35	34	134	37	211	42	188	29									
		Total	102	100	363	100	498	100	639	100										
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	3	3	13	4	16	3	25	4	2.9	3.1	-0.13	3.1	-0.16	3.0	-0.05		
		2	Some	26	26	73	20	102	20	142	22									
		3	Quite a bit	43	43	156	43	204	41	284	45									
		4	Very much	27	27	118	33	176	35	186	29									
		Total	99	100	360	100	498	100	637	100										
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	8	8	25	7	30	6	28	4	2.6	2.9 *	-0.28	2.8 *	-0.24	2.9 **	-0.31		
		2	Some	40	39	89	25	141	29	181	28									
		3	Quite a bit	37	36	160	44	207	42	274	43									
		4	Very much	17	17	87	24	115	23	157	25									
		Total	102	100	361	100	493	100	640	100										

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

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University of Minnesota Duluth

First-Year Students^a in Bio, Agric, & Nat Res

First-Year Students ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k							
				UMD		UMD Peers		Competitors		National Comparison		UMD		Your first-year students compared with					
Item wording or description	Variable name ⁱ	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	9	9	20	6	17	3	26	4	2.6	2.8 *	-0.27	2.9 ***	-0.37	2.9 **	-0.34	
		2	Some	37	37	108	30	137	28	170	27								
		3	Quite a bit	39	39	142	39	211	42	293	46								
		4	Very much	16	16	92	25	132	27	152	24								
		Total	101	100	362	100	497	100	641	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	3	1	11	2	8	1	3.1	3.2	-0.15	3.2	-0.03	3.3	-0.19	
		2	Some	22	22	51	14	68	14	73	11								
		3	Quite a bit	44	43	163	45	254	51	300	46								
		4	Very much	36	35	148	41	169	34	265	41								
		Total	102	100	365	100	502	100	646	100									
b. Taught course sessions in an organized way	ETorganize	1	Very little	1	1	3	1	8	2	8	1	3.0	3.2	-0.14	3.1	-0.10	3.2	-0.15	
		2	Some	22	22	67	18	77	15	106	17								
		3	Quite a bit	50	49	165	45	266	53	306	48								
		4	Very much	29	28	129	35	153	30	222	35								
		Total	102	100	364	100	504	100	642	100									
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	1	1	7	2	7	1	9	1	3.1	3.3 *	-0.22	3.2	-0.12	3.2	-0.18	
		2	Some	17	17	51	14	73	15	91	14								
		3	Quite a bit	53	52	142	39	236	47	277	43								
		4	Very much	30	30	165	45	187	37	267	41								
		Total	101	100	365	100	503	100	644	100									
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	7	7	21	6	50	10	37	6	2.6	2.9 *	-0.27	2.7	-0.05	2.9 **	-0.30	
		2	Some	36	36	99	28	170	34	171	27								
		3	Quite a bit	41	41	142	39	165	33	246	38								
		4	Very much	15	15	98	27	116	23	189	29								
		Total	99	100	360	100	501	100	643	100									
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	8	8	27	7	40	8	46	7	2.7	2.8	-0.19	2.7	-0.05	2.8	-0.21	
		2	Some	31	31	105	29	171	34	179	28								
		3	Quite a bit	47	47	135	37	190	38	248	39								
		4	Very much	13	13	95	26	99	20	170	26								
		Total	99	100	362	100	500	100	643	100									

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				UMD		UMD Peers		Competitors		National Comparison		UMD		Your first-year students compared with					
														UMD Peers		Competitors		National Comparison	
Item wording or description	Variable name ⁱ	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ	
6. During the current school year, about how often have you done the following?																			
a. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	QRconclude	1	Never	6	6	35	10	33	7	62	10	2.9	2.8	.15	2.8	.18	2.7 **	.30	
		2	Sometimes	27	27	100	27	161	32	224	35								
		3	Often	37	37	137	38	202	40	235	36								
		4	Very often	31	31	92	25	109	22	125	19								
		Total	101	100	364	100	505	100	646	100									
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	21	21	69	19	92	18	131	20	2.4	2.3	.03	2.4	-.01	2.3	.07	
		2	Sometimes	36	36	150	41	197	39	261	40								
		3	Often	29	29	95	26	142	28	177	27								
		4	Very often	15	15	50	14	73	14	76	12								
		Total	101	100	364	100	504	100	645	100									
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	16	16	71	19	61	12	103	16	2.4	2.4	.04	2.4	-.02	2.4	.04	
		2	Sometimes	38	38	135	37	227	45	265	41								
		3	Often	35	35	112	31	157	31	204	32								
		4	Very often	11	11	47	13	59	12	70	11								
		Total	100	100	365	100	504	100	642	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	4	4	18	5	19	4	35	6	7.7	6.3	.24	6.8	.15	6.4	.23	
	(Recoded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	25	25	77	22	103	21	127	20								
		4	3-5	27	27	114	32	138	28	212	34								
		8	6-10	15	15	87	25	140	28	145	23								
		13	11-15	13	13	34	10	58	12	67	11								
		18	16-20	4	4	7	2	21	4	19	3								
		23	More than 20	11	11	17	5	18	4	26	4								
		Total	99	100	354	100	497	100	631	100									
b. Between 6 and 10 pages	wrmednum	0	None	38	39	120	34	176	37	227	37	1.8	2.2	-.12	1.6	.12	1.9	-.02	
	(Recoded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	41	42	143	41	225	47	255	41								
		4	3-5	12	12	59	17	58	12	99	16								
		8	6-10	4	4	22	6	14	3	30	5								
		13	11-15	3	3	4	1	1	0	5	1								
		18	16-20	0	0	3	1	0	0	4	1								
		23	More than 20	0	0	2	1	2	0	1	0								
		Total	98	100	353	100	476	100	621	100									

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				Frequency Distributions								Statistical Comparisons ^k					
				UMD		UMD Peers		Competitors		National Comparison		Your first-year students compared with					
Item wording or description	Variable name ^l	Values ^m	Response options									UMD	UMD Peers		Competitors	National Comparison	
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean
c. 11 pages or more	wrlongnum	0	None	83	86	274	80	388	82	470	78	.5	.5	.03	.5	.02	.6
	(Recoded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	8	8	62	18	68	14	105	17						
		4	3-5	4	4	4	1	10	2	17	3						
		8	6-10	1	1	1	0	2	0	4	1						
		13	11-15	1	1	0	0	1	0	4	1						
		18	16-20	0	0	1	0	0	0	3	0						
		23	More than 20	0	0	1	0	2	0	0	0						
	Total			97	100	343	100	471	100	603	100						
Estimated number of assigned pages of student writing.	wrpages											42.5	41.9	.01	38.7	.08	41.8
	(Continuous variable, recoded and summed by NSSE from wrshort, wrmed, and wrlong. Values are estimated pages of assigned writing.)																
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	8	8	18	5	27	5	29	4	2.7	3.1 ***	-.40	2.9	-.20	3.0 **
		2	Sometimes	39	38	94	26	164	33	194	30						
		3	Often	32	31	104	28	158	31	187	29						
		4	Very often	23	23	149	41	153	30	238	37						
		Total		102	100	365	100	502	100	648	100						
b. People from an economic background other than your own	DDeconomic	1	Never	7	7	12	3	15	3	27	4	2.8	3.1 **	-.33	3.1 *	-.26	3.1 *
		2	Sometimes	27	26	81	22	121	24	146	23						
		3	Often	43	42	118	32	182	36	220	34						
		4	Very often	25	25	154	42	183	37	253	39						
		Total		102	100	365	100	501	100	646	100						
c. People with religious beliefs other than your own	DDreligion	1	Never	7	7	21	6	28	6	38	6	2.8	3.1 **	-.30	3.0 *	-.28	3.0 *
		2	Sometimes	31	30	83	23	121	24	163	25						
		3	Often	41	40	113	31	154	31	200	31						
		4	Very often	23	23	147	40	197	39	244	38						
		Total		102	100	364	100	500	100	645	100						
d. People with political views other than your own	DDpolitical	1	Never	9	9	29	8	21	4	38	6	2.8	2.9	-.13	3.0 *	-.26	2.9
		2	Sometimes	25	25	91	25	127	25	173	27						
		3	Often	44	43	118	33	161	32	218	34						
		4	Very often	24	24	125	34	191	38	216	33						
		Total		102	100	363	100	500	100	645	100						

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				UMD		UMD Peers		Competitors		National Comparison		UMD		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	
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	4	1	5	1	7	1	3.2	3.3	-.10	3.2	-.05	3.1	.11	
		2	Sometimes	13	13	50	14	80	16	126	20								
		3	Often	50	49	154	42	210	42	301	47								
		4	Very often	37	36	157	43	207	41	212	33								
		Total	102	100	365	100	502	100	646	100									
b. Reviewed your notes after class	LSnotes	1	Never	2	2	12	3	22	4	18	3	3.0	3.1	-.09	2.9	.08	3.0	-.02	
		2	Sometimes	28	27	92	25	154	31	172	27								
		3	Often	40	39	115	32	161	32	237	37								
		4	Very often	32	31	145	40	163	33	219	34								
		Total	102	100	364	100	500	100	646	100									
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	3	3	24	7	28	6	39	6	2.8	2.9	-.16	2.9	-.10	2.8	-.06	
		2	Sometimes	38	38	100	28	153	31	199	31								
		3	Often	39	39	120	33	180	36	232	36								
		4	Very often	21	21	117	32	138	28	167	26								
		Total	101	100	361	100	499	100	637	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	2	0	3	0	5.9	5.7	.14	5.8	.08	5.5 ***	.33	
		2		0	0	1	0	3	1	10	2								
		3		2	2	12	3	8	2	14	2								
		4		4	4	17	5	26	5	54	8								
		5		27	27	115	32	144	29	228	35								
		6		40	40	124	34	183	36	217	33								
		7	Very much	28	28	95	26	137	27	122	19								
		Total	101	100	365	100	503	100	648	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		5	5	27	7	58	12	51	8	3%	8%	-.22	7%	-.18	8%	-.24	
		Do not plan to do		1	1	10	3	14	3	12	2								
		Plan to do		93	91	301	82	398	79	531	82								
		Done or in progress		3	3	28	8	34	7	54	8								
		Total		102	100	366	100	504	100	648	100								
(Means indicate the percentage who responded "Done or in progress.")																			

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														Your first-year students compared with					
				UMD		UMD Peers		Competitors		National Comparison		UMD		UMD Peers		Competitors		National Comparison	
Item wording or description	Variable name ⁱ	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		Have not decided	24	24	101	28	140	28	177	28	10%	10%	.01	11%	-.03	12%	-.07	
	(Means indicate the percentage who responded "Done or in progress.")	Do not plan to do	26	26	98	27	95	19	170	27									
	Plan to do	41	41	132	36	209	42	217	34										
	Done or in progress	10	10	35	10	54	11	77	12										
	Total	101	100	366	100	498	100	641	100										
c. Participate in a learning community or some other formal program where groups of students take two or more classes together	learncom		Have not decided	28	27	104	29	136	27	202	31	5%	18% *** ▼	-.44	19% *** ▼	-.46	17% ** ▼	-.40	
	(Means indicate the percentage who responded "Done or in progress.")	Do not plan to do	36	35	119	33	196	39	205	32									
	Plan to do	33	32	73	20	74	15	130	20										
	Done or in progress	5	5	67	18	96	19	108	17										
	Total	102	100	363	100	502	100	645	100										
d. Participate in a study abroad program	abroad		Have not decided	28	28	104	29	129	26	180	28	1%	3%	-.15	5%	-.25	2%	-.05	
	(Means indicate the percentage who responded "Done or in progress.")	Do not plan to do	29	29	74	20	107	21	147	23									
	Plan to do	43	43	175	48	239	48	305	48										
	Done or in progress	1	1	11	3	25	5	10	2										
	Total	101	100	364	100	500	100	642	100										
e. Work with a faculty member on a research project	research		Have not decided	29	29	118	33	128	26	190	30	6%	5%	.03	11%	-.19	5%	.06	
	(Means indicate the percentage who responded "Done or in progress.")	Do not plan to do	11	11	38	11	47	9	73	11									
	Plan to do	55	54	186	52	268	54	349	54										
	Done or in progress	6	6	19	5	56	11	30	5										
	Total	101	100	361	100	499	100	642	100										
f. Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)	capstone		Have not decided	34	34	113	31	149	30	210	33	1%	1%	-.01	1%	.00	2%	-.06	
	(Means indicate the percentage who responded "Done or in progress.")	Do not plan to do	12	12	19	5	30	6	41	6									
	Plan to do	53	53	226	62	318	63	382	59										
	Done or in progress	1	1	4	1	5	1	11	2										
	Total	100	100	362	100	502	100	644	100										

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

servcourse	1	None	57	58	179	49	297	59	327	51	1.5	1.6	-.13	1.5	.05	1.6	-.14
	2	Some	36	36	167	46	186	37	272	42							
	3	Most	6	6	17	5	17	3	40	6							
	4	All	0	0	1	0	3	1	7	1							
	Total		99	100	364	100	503	100	646	100							

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

First-Year Students^a in Bio, Agric, & Nat Res

First-Year Students ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k							
				UMD		UMD Peers		Competitors		National Comparison		UMD		Your first-year students compared with					
														UMD Peers		Competitors		National Comparison	
Item wording or description	Variable name ⁱ	Values ^m	Response options	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	1	1	3	1	5	1	8	1	5.8	5.7	.05	5.7	.04	5.6	.12	
		2	1	1	5	1	4	1	11	2									
		3	4	4	12	3	14	3	28	4									
		4	10	10	37	10	43	9	64	10									
		5	19	19	77	21	129	26	145	22									
		6	31	30	118	32	157	31	208	32									
		7	Excellent	36	35	113	31	152	30	185	29								
		—	Not applicable	0	0	0	0	0	0	0	0								
		Total	102	100	365	100	504	100	649	100									
b. Academic advisors	QIadvisor	1	Poor	5	5	12	3	13	3	31	5	4.6	5.3 ***	-.44	5.1 **	-.33	5.2 **	-.33	
		2	8	8	15	4	25	5	28	4									
		3	16	16	16	4	41	8	41	6									
		4	16	16	38	10	82	16	85	13									
		5	20	20	81	22	87	17	126	20									
		6	20	20	90	25	132	26	164	25									
		7	Excellent	16	16	90	25	115	23	158	25								
		—	Not applicable	1	1	25	7	7	1	11	2								
		Total	102	100	367	100	502	100	644	100									
c. Faculty	QIfaculty	1	Poor	4	4	3	1	3	1	11	2	5.0	5.5 ***	-.38	5.3 *	-.25	5.4 **	-.34	
		2	4	4	7	2	10	2	18	3									
		3	7	7	19	5	34	7	23	4									
		4	15	15	44	12	70	14	79	12									
		5	33	32	85	23	137	27	144	22									
		6	23	23	126	35	166	33	235	36									
		7	Excellent	15	15	80	22	79	16	132	20								
		—	Not applicable	1	1	0	0	2	0	3	0								
		Total	102	100	364	100	501	100	645	100									

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

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University of Minnesota Duluth

First-Year Students^a in Bio, Agric, & Nat Res

First-Year Students ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k							
				UMD		UMD Peers		Competitors		National Comparison		UMD		Your first-year students compared with					
														UMD Peers		Competitors		National Comparison	
Item wording or description	Variable name ⁱ	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.)	Qlstaff	1	Poor	2	2	10	3	15	3	30	5	5.1	5.1	-.01	5.1	-.01	5.0	.07	
		2		4	4	12	3	16	3	32	5								
		3		14	14	30	8	44	9	53	8								
		4		12	12	43	12	59	12	76	12								
		5		20	20	86	24	122	24	143	22								
		6		24	24	94	26	145	29	165	26								
		7	Excellent	23	23	61	17	84	17	111	17								
		—	Not applicable	3	3	29	8	18	4	35	5								
		Total		102	100	365	100	503	100	645	100								
e. Other administrative staff and offices (registrar, financial aid, etc.)	Qladmin	1	Poor	3	3	14	4	13	3	31	5	4.9	5.0	-.06	5.0	-.09	5.0	-.06	
		2		7	7	15	4	28	6	36	6								
		3		12	12	27	7	33	7	49	8								
		4		12	12	50	14	65	13	81	13								
		5		19	19	86	24	109	22	129	20								
		6		28	28	85	23	144	29	160	25								
		7	Excellent	15	15	57	16	68	14	122	19								
		—	Not applicable	5	5	31	8	43	9	37	6								
		Total		101	100	365	100	503	100	645	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	2	1	3	1	4	1	3.4	3.4	.03	3.3	.08	3.3	.20	
		2	Some	8	8	40	11	49	10	88	14								
		3	Quite a bit	45	45	141	39	223	44	292	45								
		4	Very much	48	48	180	50	227	45	262	41								
		Total		101	100	363	100	502	100	646	100								
b. Providing support to help students succeed academically	SEacademic	1	Very little	1	1	8	2	23	5	20	3	3.2	3.4 *	-.26	3.2	-.02	3.2	-.05	
		2	Some	16	16	34	9	71	14	97	15								
		3	Quite a bit	49	49	143	40	201	40	260	40								
		4	Very much	34	34	177	49	205	41	265	41								
		Total		100	100	362	100	500	100	642	100								
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	3	3	8	2	19	4	20	3	3.3	3.4	-.10	3.3	.04	3.2	.07	
		2	Some	10	10	38	11	69	14	91	14								
		3	Quite a bit	42	42	126	35	172	34	247	38								
		4	Very much	46	46	187	52	239	48	287	44								
		Total		101	100	359	100	499	100	645	100								

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

First-Year Students^a in Bio, Agric, & Nat Res

First-Year Students ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k							
				UMD		UMD Peers		Competitors		National Comparison		UMD		Your first-year students compared with					
														UMD Peers		Competitors		National Comparison	
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. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1	Very little	17	17	35	10	59	12	81	13	2.5	2.8 ** ▼	-.34	2.7 * ▼	-.22	2.7 * ▼	-.23	
		2	Some	36	36	107	30	156	31	198	31								
		3	Quite a bit	31	31	110	31	167	33	197	31								
		4	Very much	17	17	108	30	118	24	169	26								
		Total	101	100	360	100	500	100	645	100									
e. Providing opportunities to be involved socially	SEsocial	1	Very little	3	3	13	4	13	3	19	3	3.0	3.2	-.20	3.1	-.19	3.1	-.12	
		2	Some	26	26	70	19	92	18	126	20								
		3	Quite a bit	41	41	126	35	206	41	276	43								
		4	Very much	31	31	153	42	188	38	222	35								
		Total	101	100	362	100	499	100	643	100									
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	5	5	18	5	24	5	26	4	2.9	3.2 * ▼	-.27	3.2 * ▼	-.28	3.1	-.16	
		2	Some	24	24	58	16	79	16	135	21								
		3	Quite a bit	43	43	132	36	185	37	257	40								
		4	Very much	27	27	154	43	210	42	228	35								
		Total	99	100	362	100	498	100	646	100									
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	18	18	69	19	94	19	119	19	2.3	2.5 * ▼	-.25	2.3	-.07	2.4	-.15	
		2	Some	47	47	110	30	209	42	241	38								
		3	Quite a bit	23	23	111	31	130	26	174	27								
		4	Very much	11	11	73	20	67	13	108	17								
		Total	99	100	363	100	500	100	642	100									
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	7	7	21	6	22	4	36	6	2.9	3.0	-.15	3.0	-.17	3.0	-.11	
		2	Some	21	21	78	21	115	23	151	24								
		3	Quite a bit	50	50	142	39	193	39	251	39								
		4	Very much	22	22	122	34	168	34	203	32								
		Total	100	100	363	100	498	100	641	100									
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	12	12	42	12	63	13	84	13	2.4	2.7 ** ▼	-.28	2.6	-.18	2.6 * ▼	-.23	
		2	Some	45	45	116	32	171	35	209	33								
		3	Quite a bit	32	32	118	33	168	34	202	32								
		4	Very much	11	11	85	24	92	19	146	23								
		Total	100	100	361	100	494	100	641	100									

Frequency Distributions

Statistical Comparisons^k

Your first-year students compared with

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NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

First-Year Students^a in Bio, Agric, & Nat Res

First-Year Students ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k							
				UMD		UMD Peers		Competitors		National Comparison		UMD		Your first-year students compared with					
														UMD Peers		Competitors		National Comparison	
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. Working for pay off campus	tmworkoffhrs	0	0 hrs	83	82	284	78	425	85	508	79	2.6	3.1	-.06	1.9	.12	3.1	-.07	
	(Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	4	4	12	3	17	3	21	3								
		8	6-10 hrs	2	2	18	5	19	4	29	5								
		13	11-15 hrs	3	3	20	6	14	3	25	4								
		18	16-20 hrs	4	4	14	4	9	2	24	4								
		23	21-25 hrs	4	4	6	2	10	2	16	2								
		28	26-30 hrs	0	0	3	1	3	1	10	2								
		33	More than 30 hrs	1	1	6	2	3	1	9	1								
	Total			101	100	363	100	500	100	642	100								
Estimated number of hours working for pay	tmworkhrs											5.0	4.9	.02	4.2	.10	5.1	-.01	
	(Continuous variable created by NSSE)																		
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	63	62	206	57	274	55	372	59	2.1	2.0	.01	1.8	.07	2.1	-.01	
	(Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	28	28	123	34	190	38	209	33								
		8	6-10 hrs	6	6	22	6	23	5	26	4								
		13	11-15 hrs	1	1	4	1	6	1	12	2								
		18	16-20 hrs	1	1	3	1	2	0	6	1								
		23	21-25 hrs	2	2	2	1	1	0	8	1								
		28	26-30 hrs	0	0	0	0	1	0	1	0								
		33	More than 30 hrs	0	0	1	0	0	0	1	0								
	Total			101	100	361	100	497	100	635	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	5	1	7	1	6	1	14.1	13.2	.11	12.7	.19	13.4	.08	
	(Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	14	14	71	20	71	14	98	15								
		8	6-10 hrs	23	23	83	23	149	30	194	31								
		13	11-15 hrs	27	27	83	23	125	25	119	19								
		18	16-20 hrs	15	15	50	14	80	16	88	14								
		23	21-25 hrs	12	12	31	9	29	6	63	10								
		28	26-30 hrs	5	5	16	4	19	4	20	3								
		33	More than 30 hrs	5	5	23	6	20	4	46	7								
	Total			101	100	362	100	500	100	634	100								

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				UMD		UMD Peers		Competitors		National Comparison		UMD		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. Providing care for dependents (children, parents, etc.)		tmcarehrs	0	0 hrs	90	88	317	88	451	91	533	84	1.4	1.1	.07	.9	.13	1.3	.01
		(Recorded version of tmcare created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	6	6	23	6	25	5	55	9							
			8	6-10 hrs	1	1	11	3	9	2	22	3							
			13	11-15 hrs	1	1	4	1	3	1	9	1							
			18	16-20 hrs	0	0	2	1	2	0	6	1							
			23	21-25 hrs	3	3	1	0	3	1	4	1							
			28	26-30 hrs	0	0	1	0	0	0	2	0							
			33	More than 30 hrs	1	1	3	1	4	1	4	1							
			Total		102	100	362	100	497	100	635	100							
h. Commuting to campus (driving, walking, etc.)		tmcommutehrs	0	0 hrs	64	63	160	44	244	49	303	47	2.1	3.3 *	-.24	2.6	-.11	2.9	-.17
		(Recorded version of tmcommute created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	30	29	133	37	194	39	249	39							
			8	6-10 hrs	4	4	44	12	39	8	49	8							
			13	11-15 hrs	0	0	13	4	16	3	19	3							
			18	16-20 hrs	2	2	6	2	1	0	9	1							
			23	21-25 hrs	1	1	0	0	2	0	3	0							
			28	26-30 hrs	0	0	2	1	3	1	5	1							
			33	More than 30 hrs	1	1	3	1	1	0	3	0							
			Total		102	100	361	100	500	100	640	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	7	7	21	9	38	10	55	15	2.8	2.9	-.09	2.9	-.08	2.6	.14	
	(Revised for 2014. Comparison data are limited to NSSE 2014 participating institutions.)	2	Some	34	34	68	29	111	29	121	33								
		3	About half	39	39	79	34	117	31	106	29								
		4	Most	13	13	51	22	84	22	74	20								
		5	Almost all	7	7	16	7	28	7	12	3								
		Total		100	100	235	100	378	100	368	100								
	tmreadinghrs											7.5	7.6	-.01	9.2 **	-.26	6.4	.19	
	(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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				UMD		UMD Peers		Competitors		National Comparison		UMD		Your first-year students compared with					
		UMD Peers												Competitors		National Comparison			
Item wording or description	Variable name ⁱ	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	0	0	0	0	1	0								
	(Collapsed version of tmreadinghrs created by NSSE.)	2	More than zero, up to 5 hrs	40	40	91	39	133	35	197	54								
		3	More than 5, up to 10 hrs	35	35	86	37	119	31	97	27								
		4	More than 10, up to 15 hrs	16	16	31	13	50	13	36	10								
		5	More than 15, up to 20 hrs	6	6	14	6	42	11	15	4								
		6	More than 20, up to 25 hrs	2	2	9	4	23	6	18	5								
		7	More than 25 hrs	1	1	2	1	11	3	2	1								
		Total		100	100	233	100	378	100	366	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	12	12	40	11	49	10	51	8	2.6	2.7	-.18	2.7	-.15	2.8 *	-.24	
	2	Some	34	34	98	27	158	31	187	29									
	3	Quite a bit	40	40	141	39	187	37	257	40									
	4	Very much	15	15	84	23	109	22	152	23									
	Total		101	100	363	100	503	100	647	100									
b. Speaking clearly and effectively	pgspeak	1	Very little	19	19	59	16	71	14	75	12	2.3	2.5 *	-.23	2.5 *	-.22	2.6 **	-.35	
	2	Some	37	36	119	33	185	37	204	32									
	3	Quite a bit	40	39	115	32	158	31	245	38									
	4	Very much	6	6	70	19	90	18	123	19									
	Total		102	100	363	100	504	100	647	100									
c. Thinking critically and analytically	pgthink	1	Very little	3	3	9	2	11	2	20	3	3.0	3.1	-.10	3.2	-.19	3.1	-.05	
	2	Some	23	23	70	19	76	15	126	19									
	3	Quite a bit	42	41	149	41	218	43	277	43									
	4	Very much	34	33	135	37	197	39	224	35									
	Total		102	100	363	100	502	100	647	100									
d. Analyzing numerical and statistical information	pganalyze	1	Very little	4	4	31	9	39	8	65	10	3.0	2.8	.18	2.8	.14	2.7 *	.25	
	2	Some	25	25	106	29	129	26	177	27									
	3	Quite a bit	42	42	129	36	205	41	261	40									
	4	Very much	30	30	97	27	130	26	144	22									
	Total		101	100	363	100	503	100	647	100									

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				Frequency Distributions								Statistical Comparisons ^k					
				UMD		UMD Peers		Competitors		National Comparison		Your first-year students compared with					
Item wording or description	Variable name ^l	Values ^m	Response options									UMD	UMD Peers		Competitors		National Comparison
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean
e. Acquiring job- or work-related knowledge and skills	pgwork	1	Very little	15	15	72	20	67	13	100	15	2.4	2.5	-.07	2.5	-.13	2.6
		2	Some	39	38	113	31	180	36	205	32						
		3	Quite a bit	37	36	103	28	170	34	210	32						
		4	Very much	11	11	75	21	86	17	132	20						
		Total		102	100	363	100	503	100	647	100						
f. Working effectively with others	pgothers	1	Very little	8	8	28	8	33	7	46	7	2.7	2.8	-.18	2.8	-.18	2.8
		2	Some	35	35	99	27	148	29	178	28						
		3	Quite a bit	40	40	137	38	196	39	256	40						
		4	Very much	18	18	97	27	127	25	163	25						
		Total		101	100	361	100	504	100	643	100						
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	18	18	49	13	79	16	79	12	2.4	2.6 *	-.27	2.6	-.18	2.7 **
		2	Some	34	34	115	32	164	33	210	33						
		3	Quite a bit	41	41	114	31	162	32	207	32						
		4	Very much	8	8	85	23	98	19	149	23						
		Total		101	100	363	100	503	100	645	100						
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	22	22	47	13	62	12	83	13	2.3	2.7 **	-.35	2.7 **	-.36	2.7 ***
		2	Some	37	36	120	33	164	33	204	32						
		3	Quite a bit	32	31	106	29	163	32	212	33						
		4	Very much	11	11	90	25	114	23	147	23						
		Total		102	100	363	100	503	100	646	100						
i. Solving complex real-world problems	pgprobsolve	1	Very little	18	18	51	14	72	14	86	13	2.4	2.6	-.19	2.6	-.15	2.6
		2	Some	33	33	114	31	171	34	217	34						
		3	Quite a bit	39	39	124	34	158	31	219	34						
		4	Very much	11	11	74	20	101	20	123	19						
		Total		101	100	363	100	502	100	645	100						
j. Being an informed and active citizen	pgcitizen	1	Very little	19	19	52	14	71	14	74	12	2.3	2.6 **	-.34	2.6 **	-.29	2.6 ***
		2	Some	44	43	113	31	170	34	216	34						
		3	Quite a bit	30	29	118	33	168	34	222	35						
		4	Very much	9	9	77	21	91	18	128	20						
		Total		102	100	360	100	500	100	640	100						

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

First-Year Students^a in Bio, Agric, & Nat Res

First-Year Students ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k							
				UMD		UMD Peers		Competitors		National Comparison		UMD		Your first-year students compared with					
														UMD Peers		Competitors		National Comparison	
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	1	1	8	2	6	1	6	1	3.2	3.2	-.09	3.4 **	-.32	3.3	-.14	
		2	Fair	10	10	40	11	38	8	60	9								
		3	Good	61	60	173	47	213	42	333	51								
		4	Excellent	30	29	145	40	245	49	248	38								
		Total		102	100	366	100	502	100	647	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	6	2	13	3	26	4	3.3	3.3	-.02	3.4	-.15	3.3	-.01	
		2	Probably no	7	7	33	9	36	7	55	9								
		3	Probably yes	57	56	165	45	187	37	256	40								
		4	Definitely yes	38	37	162	44	269	53	310	48								
		Total		102	100	366	100	505	100	647	100								

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

Seniors^a in Bio, Agric, & Nat Res

Seniors ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k								
				UMD		UMD Peers		Competitors		National Comparison		UMD		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
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	5	14	3	21	3	21	2	2.8	3.1 ** ▼	-.32	2.9	-.19	3.1 *** ▼	-.34		
		2	Sometimes	45	36	128	27	261	32	270	26									
		3	Often	43	35	141	30	273	34	343	34									
		4	Very often	30	24	186	40	257	32	389	38									
		Total	124	100	469	100	812	100	1,023	100										
b. Prepared two or more drafts of a paper or assignment before turning it in	drafts	1	Never	21	17	90	19	174	22	193	19	2.5	2.4	.06	2.3	.12	2.4	.04		
		2	Sometimes	43	34	179	38	303	37	367	36									
		3	Often	44	35	121	26	217	27	295	29									
		4	Very often	17	14	78	17	115	14	161	16									
		Total	125	100	468	100	809	100	1,016	100										
c. Come to class without completing readings or assignments	unpreparedr (Reverse-coded version of unprepared created by NSSE.)	1	Very often	6	5	25	5	43	5	54	5	2.8	3.0 * ▽	-.25	3.0	-.19	3.0 * ▽	-.20		
		2	Often	28	23	51	11	108	13	127	12									
		3	Sometimes	70	56	276	59	480	59	613	60									
		4	Never	20	16	113	24	178	22	225	22									
		Total	124	100	465	100	809	100	1,019	100										
d. Attended an art exhibit, play or other arts performance (dance, music, etc.)	attendart	1	Never	45	36	171	37	320	40	409	40	1.8	1.9	-.10	1.8	.00	1.8	-.06		
		2	Sometimes	65	52	212	45	373	46	433	42									
		3	Often	12	10	63	13	83	10	122	12									
		4	Very often	3	2	22	5	31	4	57	6									
		Total	125	100	468	100	807	100	1,021	100										
e. Asked another student to help you understand course material	CLaskhelp	1	Never	10	8	27	6	41	5	66	7	2.6	2.7	-.14	2.7	-.15	2.6	-.06		
		2	Sometimes	51	41	174	37	320	40	415	41									
		3	Often	45	36	176	38	281	35	355	35									
		4	Very often	19	15	90	19	168	21	178	18									
		Total	125	100	467	100	810	100	1,014	100										
f. Explained course material to one or more students	CLexplain	1	Never	1	1	2	0	11	1	12	1	2.9	3.0	-.18	2.9	-.01	3.0	-.11		
		2	Sometimes	39	31	113	24	246	30	283	28									
		3	Often	54	44	211	45	352	43	418	41									
		4	Very often	30	24	140	30	201	25	306	30									
		Total	124	100	466	100	810	100	1,019	100										

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

Seniors^a in Bio, Agric, & Nat Res

Seniors ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k								
				UMD		UMD Peers		Competitors		National Comparison		UMD		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
g. Prepared for exams by discussing or working through course material with other students	CLstudy	1	Never	12	10	46	10	78	10	90	9	2.6	2.7	-.11	2.7	-.08	2.7	-.16		
		2	Sometimes	51	41	169	36	308	38	357	35									
		3	Often	37	30	141	30	238	29	312	31									
		4	Very often	23	19	111	24	183	23	262	26									
		Total	123	100	467	100	807	100	1,021	100										
h. Worked with other students on course projects or assignments	CLproject	1	Never	1	1	14	3	27	3	21	2	2.9	2.9	-.08	2.9	-.07	3.0 *	▽		
		2	Sometimes	44	35	148	32	235	29	261	26									
		3	Often	50	40	160	34	326	40	414	41									
		4	Very often	29	23	145	31	223	27	324	32									
		Total	124	100	467	100	811	100	1,020	100										
i. Gave a course presentation	present	1	Never	11	9	33	7	96	12	68	7	2.6	2.7	-.15	2.5	.12	2.7	-.19		
		2	Sometimes	53	42	182	39	357	44	361	35									
		3	Often	41	33	148	32	246	30	376	37									
		4	Very often	20	16	103	22	110	14	213	21									
		Total	125	100	466	100	809	100	1,018	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	0	0	5	1	9	1	15	1	3.0	3.1 *	▽	-0.20	3.0	-0.12	3.1	-0.18	
		2	Sometimes	37	30	111	24	204	25	221	22									
		3	Often	57	46	179	38	338	42	436	43									
		4	Very often	31	25	171	37	257	32	348	34									
		Total	125	100	466	100	808	100	1,020	100										
b. Connected your learning to societal problems or issues	RIsocietal	1	Never	10	8	22	5	45	6	66	6	2.6	2.8 *	▽	-0.25	2.7	-0.14	2.8 *	▽	
		2	Sometimes	48	39	157	34	305	38	336	33									
		3	Often	47	38	172	37	283	35	381	38									
		4	Very often	18	15	113	24	168	21	233	23									
		Total	123	100	464	100	801	100	1,016	100										
c. Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	RIdiverse	1	Never	28	22	66	14	124	15	153	15	2.1	2.5 ***	▽	-0.38	2.4 **	▽	2.4 ***	▽	
		2	Sometimes	65	52	198	42	354	44	449	44									
		3	Often	22	18	125	27	223	28	290	28									
		4	Very often	10	8	77	17	106	13	126	12									
		Total	125	100	466	100	807	100	1,018	100										

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

Seniors^a in Bio, Agric, & Nat Res

Seniors ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k								
				UMD		UMD Peers		Competitors		National Comparison		UMD		Your seniors compared with						
														UMD Peers		Competitors		National Comparison		
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. Examined the strengths and weaknesses of your own views on a topic or issue	RIownview	1	Never	12	10	25	5	42	5	52	5	2.6	2.7	-.19	2.7	-.11	2.8 *	▽		
		2	Sometimes	48	39	163	35	307	38	341	34									
		3	Often	44	35	184	40	331	41	422	42									
		4	Very often	20	16	93	20	124	15	198	20									
		Total	124	100	465	100	804	100	1,013	100										
e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	RIperspect	1	Never	5	4	12	3	34	4	28	3	2.7	2.9 *	▽	-.20	2.8	-.11	2.9 **	▽	
		2	Sometimes	47	38	147	31	261	32	292	29									
		3	Often	53	43	207	44	361	45	449	44									
		4	Very often	19	15	101	22	151	19	247	24									
		Total	124	100	467	100	807	100	1,016	100										
f. Learned something that changed the way you understand an issue or concept	RInewview	1	Never	3	2	5	1	13	2	14	1	2.8	3.0 *	▽	-.22	2.9	-.15	2.9 *	▽	
		2	Sometimes	47	38	137	29	234	29	306	30									
		3	Often	49	39	197	42	378	47	434	43									
		4	Very often	26	21	128	27	176	22	263	26									
		Total	125	100	467	100	801	100	1,017	100										
g. Connected ideas from your courses to your prior experiences and knowledge	RIconnect	1	Never	0	0	3	1	3	0	6	1	3.0	3.3 ***	▽	-.40	3.2 **	▽	3.2 ***	▽	
		2	Sometimes	32	26	70	15	122	15	148	15									
		3	Often	61	49	175	38	381	48	458	45									
		4	Very often	32	26	214	46	294	37	402	40									
		Total	125	100	462	100	800	100	1,014	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	34	27	69	15	106	13	111	11	2.2	2.5 ***	▽	-.36	2.5 ***	▽	-.34	2.6 ***	▽
		2	Sometimes	49	39	181	39	351	43	406	40									
		3	Often	29	23	119	26	210	26	290	29									
		4	Very often	13	10	95	20	143	18	207	20									
		Total	125	100	464	100	810	100	1,014	100										
b. Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	SFotherwork	1	Never	53	43	177	38	307	38	347	34	2.0	2.1	-.10	2.0	-.04	2.2	-.16		
		2	Sometimes	29	24	141	30	259	32	307	30									
		3	Often	29	24	70	15	139	17	200	20									
		4	Very often	12	10	78	17	99	12	157	16									
		Total	123	100	466	100	804	100	1,011	100										

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

Seniors^a in Bio, Agric, & Nat Res

Seniors ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k								
				UMD		UMD Peers		Competitors		National Comparison		UMD		Your seniors compared with						
Item wording or description		Variable name ⁱ		Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean	Effect size ⁿ
c. Discussed course topics, ideas, or concepts with a faculty member outside of class	SFdiscuss	1	Never	27	22	74	16	173	21	139	14	2.1	2.4 ** ▼	-.27	2.2	-.10	2.4 *** ▼	-.30		
		2	Sometimes	58	47	207	45	367	45	458	45									
		3	Often	31	25	109	23	177	22	271	27									
		4	Very often	7	6	75	16	92	11	145	14									
		Total	123	100	465	100	809	100	1,013	100										
d. Discussed your academic performance with a faculty member	SFperform	1	Never	39	31	96	21	224	28	194	19	2.0	2.2 * ▼	-.25	2.0	-.03	2.3 *** ▼	-.31		
		2	Sometimes	54	44	223	48	380	48	457	45									
		3	Often	22	18	87	19	144	18	231	23									
		4	Very often	9	7	60	13	52	7	130	13									
		Total	124	100	466	100	800	100	1,012	100										
4. During the current school year, how much has your coursework emphasized the following?																				
a. Memorizing course material	memorize	1	Very little	1	1	24	5	26	3	22	2	3.3	3.0 ** ▲	.27	3.1 ** ▲	.26	3.2	.15		
		2	Some	13	10	90	19	161	20	189	19									
		3	Quite a bit	62	50	194	41	356	44	415	41									
		4	Very much	49	39	161	34	266	33	388	38									
		Total	125	100	469	100	809	100	1,014	100										
b. Applying facts, theories, or methods to practical problems or new situations	HOapply	1	Very little	5	4	12	3	16	2	17	2	2.9	3.2 *** ▼	-.40	3.2 *** ▼	-.36	3.2 *** ▼	-.37		
		2	Some	26	21	68	15	122	15	168	17									
		3	Quite a bit	67	54	188	40	365	45	430	43									
		4	Very much	25	20	198	42	302	38	395	39									
		Total	123	100	466	100	805	100	1,010	100										
c. Analyzing an idea, experience, or line of reasoning in depth by examining its parts	HOanalyze	1	Very little	3	2	15	3	19	2	36	4	2.9	3.1 ** ▼	-.29	3.1 * ▼	-.21	3.0	-.18		
		2	Some	32	26	94	20	183	23	225	22									
		3	Quite a bit	61	50	172	37	334	41	410	41									
		4	Very much	25	21	184	40	269	33	338	33									
		Total	121	100	465	100	805	100	1,009	100										
d. Evaluating a point of view, decision, or information source	HOevaluate	1	Very little	11	9	33	7	44	5	64	6	2.6	2.9 *** ▼	-.38	2.8 ** ▼	-.26	2.8 ** ▼	-.31		
		2	Some	48	39	123	26	269	33	294	29									
		3	Quite a bit	50	40	173	37	319	40	403	40									
		4	Very much	15	12	140	30	175	22	247	25									
		Total	124	100	469	100	807	100	1,008	100										

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

Seniors^a in Bio, Agric, & Nat Res

Seniors ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k							
				UMD		UMD Peers		Competitors		National Comparison		UMD		Your seniors compared with					
				UMD		UMD Peers		Competitors		National Comparison		UMD		UMD Peers		Competitors		National Comparison	
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	12	10	21	5	48	6	61	6	2.6	2.9 *** ▼	-.38	2.8 * ▼	-.24	2.9 *** ▼	-.34	
		2	Some	46	37	126	27	239	30	238	24								
		3	Quite a bit	44	35	172	37	330	41	440	44								
		4	Very much	22	18	144	31	191	24	269	27								
		Total	124	100	463	100	808	100	1,008	100									
5. During the current school year, to what extent have your instructors done the following?																			
a. Clearly explained course goals and requirements	ETgoals	1	Very little	1	1	4	1	8	1	12	1	3.0	3.2 *** ▼	-.39	3.2 ** ▼	-.28	3.3 *** ▼	-.45	
		2	Some	30	24	67	14	132	16	125	12								
		3	Quite a bit	66	53	206	44	383	47	438	43								
		4	Very much	28	22	190	41	288	36	444	44								
		Total	125	100	467	100	811	100	1,019	100									
b. Taught course sessions in an organized way	ETorganize	1	Very little	4	3	10	2	12	1	15	1	3.0	3.1 * ▼	-.23	3.1 * ▼	-.20	3.2 *** ▼	-.36	
		2	Some	27	22	72	15	145	18	133	13								
		3	Quite a bit	63	50	228	49	394	49	469	46								
		4	Very much	31	25	157	34	261	32	398	39								
		Total	125	100	467	100	812	100	1,015	100									
c. Used examples or illustrations to explain difficult points	ETexample	1	Very little	2	2	7	2	6	1	12	1	3.1	3.3 * ▼	-.23	3.3 * ▼	-.20	3.3 *** ▼	-.33	
		2	Some	20	16	59	13	119	15	112	11								
		3	Quite a bit	65	52	197	42	345	43	402	40								
		4	Very much	38	30	203	44	340	42	487	48								
		Total	125	100	466	100	810	100	1,013	100									
d. Provided feedback on a draft or work in progress	ETdraftfb	1	Very little	13	11	60	13	115	14	96	9	2.4	2.7 ** ▼	-.28	2.6 ▼	-.15	2.8 *** ▼	-.40	
		2	Some	58	47	127	27	275	34	275	27								
		3	Quite a bit	37	30	169	36	243	30	364	36								
		4	Very much	15	12	109	23	173	21	280	28								
		Total	123	100	465	100	806	100	1,015	100									
e. Provided prompt and detailed feedback on tests or completed assignments	ETfeedback	1	Very little	14	11	27	6	56	7	66	7	2.4	2.8 *** ▼	-.47	2.7 *** ▼	-.32	2.9 *** ▼	-.50	
		2	Some	55	44	132	29	278	34	270	27								
		3	Quite a bit	42	34	194	42	318	39	397	39								
		4	Very much	13	10	110	24	154	19	278	27								
		Total	124	100	463	100	806	100	1,011	100									

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				UMD		UMD Peers		Competitors		National Comparison		UMD		Your seniors compared with					
														UMD Peers		Competitors		National Comparison	
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	
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	5	4	19	4	31	4	30	3	2.8	3.0 ** ▼	-.33	2.9 * ▼	-.21	3.0 ** ▼	-.30	
		2	Sometimes	37	30	101	22	220	27	249	24								
		3	Often	64	51	186	40	323	40	407	40								
		4	Very often	19	15	161	34	239	29	334	33								
		Total	125	100	467	100	813	100	1,020	100									
b. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	QRproblem	1	Never	26	21	62	13	113	14	105	10	2.3	2.7 *** ▼	-.40	2.6 ** ▼	-.30	2.7 *** ▼	-.49	
		2	Sometimes	54	43	146	31	301	37	315	31								
		3	Often	31	25	151	32	227	28	362	36								
		4	Very often	14	11	107	23	169	21	237	23								
		Total	125	100	466	100	810	100	1,019	100									
c. Evaluated what others have concluded from numerical information	QRevaluate	1	Never	13	10	36	8	66	8	75	7	2.5	2.8 ** ▼	-.31	2.7 * ▼	-.22	2.8 *** ▼	-.32	
		2	Sometimes	55	44	148	32	291	36	317	31								
		3	Often	37	30	163	35	272	34	367	36								
		4	Very often	19	15	119	26	180	22	256	25								
		Total	124	100	466	100	809	100	1,015	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 (Recoded version of wrshort created by NSSE. Values are estimated number of papers, reports, etc.)	0	None	1	1	15	3	34	4	56	6	7.2	7.6	-.07	7.1	.01	6.7	.09	
		1.5	1-2	29	24	79	17	166	21	226	23								
		4	3-5	32	26	140	31	239	30	306	31								
		8	6-10	39	32	112	25	190	24	198	20								
		13	11-15	7	6	47	10	61	8	97	10								
		18	16-20	7	6	28	6	51	6	51	5								
		23	More than 20	8	7	34	7	52	7	55	6								
		Total	123	100	455	100	793	100	989	100									
b. Between 6 and 10 pages	wrmednum (Recoded version of wrmed created by NSSE. Values are estimated number of papers, reports, etc.)	0	None	19	15	103	23	219	28	194	20	3.2	3.2	.02	2.5 * ▲	.22	2.9	.09	
		1.5	1-2	52	42	168	37	324	42	428	43								
		4	3-5	30	24	126	28	153	20	258	26								
		8	6-10	18	15	29	6	47	6	63	6								
		13	11-15	3	2	16	4	18	2	26	3								
		18	16-20	1	1	3	1	7	1	11	1								
		23	More than 20	0	0	8	2	4	1	7	1								
		Total	123	100	453	100	772	100	987	100									

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

Seniors^a in Bio, Agric, & Nat Res

Seniors ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k							
				UMD		UMD Peers		Competitors		National Comparison		UMD		Your seniors compared with					
														UMD Peers		Competitors		National Comparison	
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	43	36	191	43	420	56	455	48	1.7	1.7	.00	1.3	.15	1.5	.07	
	(Recoded version of wrlong created by NSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	56	47	198	44	244	33	366	38								
		4	3-5	13	11	34	8	51	7	91	10								
		8	6-10	5	4	6	1	19	3	21	2								
		13	11-15	0	0	10	2	8	1	12	1								
		18	16-20	0	0	1	0	5	1	3	0								
		23	More than 20	1	1	5	1	2	0	6	1								
		Total	118	100	445	100	749	100	954	100									
Estimated number of assigned pages of student writing.	wrpages	(Continuous variable, recoded and summed by NSSE from wrshort, wrmed, and wrlong. Values are estimated pages of assigned writing.)										71.6	71.8	.00	59.9	.17	64.0	.11	
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	9	7	16	3	55	7	57	6	2.6	3.0 ***	-.40	2.8	-.18	2.9 **	-.29	
		2	Sometimes	55	44	151	32	281	35	326	32								
		3	Often	35	28	121	26	249	31	301	30								
		4	Very often	26	21	178	38	222	28	333	33								
		Total	125	100	466	100	807	100	1,017	100									
b. People from an economic background other than your own	DDeconomic	1	Never	6	5	13	3	39	5	39	4	2.8	3.1 **	-.33	2.9	-.15	3.0 **	-.27	
		2	Sometimes	41	33	112	24	209	26	244	24								
		3	Often	49	39	162	35	319	40	374	37								
		4	Very often	29	23	180	39	239	30	361	35								
		Total	125	100	467	100	806	100	1,018	100									
c. People with religious beliefs other than your own	DDreligion	1	Never	8	6	14	3	41	5	58	6	2.8	3.2 ***	-.41	3.0 *	-.20	3.0 *	-.24	
		2	Sometimes	41	33	107	23	212	26	247	24								
		3	Often	45	36	136	29	281	35	335	33								
		4	Very often	31	25	208	45	271	34	373	37								
		Total	125	100	465	100	805	100	1,013	100									
d. People with political views other than your own	DDpolitical	1	Never	12	10	12	3	38	5	51	5	2.8	3.1 **	-.30	3.0 *	-.24	3.0 *	-.21	
		2	Sometimes	34	27	123	27	199	25	273	27								
		3	Often	47	38	158	34	288	36	332	33								
		4	Very often	32	26	171	37	277	35	358	35								
		Total	125	100	464	100	802	100	1,014	100									

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University of Minnesota Duluth

Seniors^a in Bio, Agric, & Nat Res

Seniors ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k								
				UMD		UMD Peers		Competitors		National Comparison		UMD		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
9. During the current school year, about how often have you done the following?																				
a. Identified key information from reading assignments	LSreading	1	Never	1	1	6	1	11	1	17	2	3.1	3.3 *	-0.20	3.2	-0.13	3.3	-0.16		
		2	Sometimes	26	21	62	13	130	16	154	15									
		3	Often	52	42	185	40	314	39	383	38									
		4	Very often	46	37	212	46	351	44	460	45									
		Total	125	100	465	100	806	100	1,014	100										
b. Reviewed your notes after class	LSnotes	1	Never	9	7	29	6	61	8	82	8	2.6	2.9 **	-0.31	2.8	-0.17	2.9 **	-0.26		
		2	Sometimes	48	39	134	29	273	34	289	29									
		3	Often	44	36	144	31	242	30	291	29									
		4	Very often	22	18	158	34	231	29	348	34									
		Total	123	100	465	100	807	100	1,010	100										
c. Summarized what you learned in class or from course materials	LSsummary	1	Never	10	8	22	5	57	7	79	8	2.7	3.0 **	-0.28	2.8	-0.10	2.9	-0.16		
		2	Sometimes	43	35	130	28	256	32	277	28									
		3	Often	44	35	156	34	270	34	354	35									
		4	Very often	27	22	157	34	214	27	295	29									
		Total	124	100	465	100	797	100	1,005	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	4	1	2	0	3	0	5.6	5.7	-0.05	5.7	-0.09	5.6	-0.03		
		2	0	0	8	2	8	1	9	1										
		3	3	2	11	2	11	1	33	3										
		4	9	7	30	6	63	8	81	8										
		5	45	36	131	28	239	30	307	30										
		6	45	36	164	35	284	35	334	33										
		7	Very much	23	18	119	25	201	25	253	25									
		Total	125	100	467	100	808	100	1,020	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	11	9	29	6	55	7	77	8	36%	51% **	-0.30	49% **	-0.27	55% ***	-0.39			
		Do not plan to do	28	22	92	20	195	24	130	13										
		Plan to do	41	33	108	23	158	20	246	24										
		Done or in progress	45	36	238	51	398	49	562	55										
		Total	125	100	467	100	806	100	1,015	100										
		(Means indicate the percentage who responded "Done or in progress.")																		

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University of Minnesota Duluth

Seniors^a in Bio, Agric, & Nat Res

Seniors ^a in Bio, Agric, & Nat Res			Frequency Distributions								Statistical Comparisons ^k								
			UMD		UMD Peers		Competitors		National Comparison		UMD		Your seniors compared with						
													UMD Peers		Competitors		National Comparison		
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		Have not decided		8	6	32	7	56	7	85	8	37%	39%	-.05	46%	-.18	40%	-.07
	(Means indicate the percentage who responded "Done or in progress.")	Do not plan to do		55	44	230	49	341	42	459	45								
	Plan to do		16	13	22	5	41	5	64	6									
	Done or in progress		46	37	183	39	367	46	408	40									
	Total		125	100	467	100	805	100	1,016	100									
c. Participate in a learning community or some other formal program where groups of students take two or more classes together	learncom		Have not decided		16	13	40	9	52	6	121	12	20%	19%	.01	26%	-.15	25%	-.12
	(Means indicate the percentage who responded "Done or in progress.")	Do not plan to do		71	58	311	67	522	65	580	57								
	Plan to do		12	10	25	5	26	3	65	6									
	Done or in progress		24	20	89	19	206	26	250	25									
	Total		123	100	465	100	806	100	1,016	100									
d. Participate in a study abroad program	abroad		Have not decided		17	14	29	6	65	8	132	13	15%	14%	.05	23%	-.20	16%	-.03
	(Means indicate the percentage who responded "Done or in progress.")	Do not plan to do		79	63	345	74	510	63	645	64								
	Plan to do		10	8	28	6	45	6	70	7									
	Done or in progress		19	15	63	14	185	23	167	16									
	Total		125	100	465	100	805	100	1,014	100									
e. Work with a faculty member on a research project	research		Have not decided		14	11	39	8	61	8	129	13	35%	47% *	-.25	56% ***	-.43	47% *	-.24
	(Means indicate the percentage who responded "Done or in progress.")	Do not plan to do		50	40	134	29	214	27	255	25								
	Plan to do		17	14	74	16	78	10	156	15									
	Done or in progress		43	35	217	47	450	56	472	47									
	Total		124	100	464	100	803	100	1,012	100									
f. Complete a culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)	capstone		Have not decided		17	14	25	5	33	4	100	10	40%	55% **	-.30	61% ***	-.41	47%	-.13
	(Means indicate the percentage who responded "Done or in progress.")	Do not plan to do		26	21	108	23	121	15	229	23								
	Plan to do		31	25	76	16	160	20	208	21									
	Done or in progress		50	40	256	55	488	61	474	47									
	Total		124	100	465	100	802	100	1,011	100									

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

servcourse	1	None	49	39	204	44	385	48	407	40	1.6	1.6	.02	1.6	.11	1.7	-.09
	2	Some	74	59	243	52	396	49	537	53							
	3	Most	2	2	16	3	20	2	63	6							
	4	All	0	0	4	1	5	1	8	1							
	Total		125	100	467	100	806	100	1,015	100							

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				Frequency Distributions								Statistical Comparisons ^k									
				UMD		UMD Peers		Competitors		National Comparison		UMD		Your seniors compared with							
Item wording or description		Variable name ⁱ		Values ^m	Response options		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	2	2	1	0	6	1	5	0	5.8	5.7	.07	5.8	.06	5.7	.08			
		2	0	0	6	1	9	1	12	1											
		3	1	1	17	4	19	2	31	3											
		4	9	7	39	8	57	7	82	8											
		5	24	19	102	22	190	24	241	24											
		6	56	45	162	35	296	37	347	34											
		7	Excellent	33	26	138	30	230	29	300	29										
		—	Not applicable	0	0	1	0	0	0	2	0										
		Total	125	100	466	100	807	100	1,020	100											
b. Academic advisors	QIadvisor	1	Poor	10	8	30	6	42	5	38	4	4.5	5.1 **	-.30	4.9	-.19	5.4 ***	-.49			
		2	9	7	23	5	67	8	50	5											
		3	10	8	40	9	81	10	62	6											
		4	27	22	63	14	108	13	108	11											
		5	28	23	72	15	164	20	188	18											
		6	22	18	104	22	157	19	225	22											
		7	Excellent	17	14	132	28	185	23	337	33										
		—	Not applicable	0	0	2	0	4	0	10	1										
		Total	123	100	466	100	808	100	1,018	100											
c. Faculty	QIfaculty	1	Poor	3	2	8	2	8	1	9	1	5.1	5.6 ***	-.35	5.4 *	-.22	5.7 ***	-.52			
		2	3	2	10	2	21	3	15	1											
		3	8	7	23	5	39	5	29	3											
		4	17	14	36	8	102	13	76	8											
		5	39	32	103	22	209	26	226	22											
		6	40	33	156	34	262	33	343	34											
		7	Excellent	13	11	125	27	161	20	311	31										
		—	Not applicable	0	0	1	0	1	0	1	0										
		Total	123	100	462	100	803	100	1,010	100											

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				UMD		UMD Peers		Competitors		National Comparison		UMD		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
d. Student services staff (career services, student activities, housing, etc.)	Qlstaff	1	Poor	4	3	17	4	31	4	37	4	5.0	4.9	.06	4.9	.04	5.0	.01	
		2	2	18	4	42	5	42	4										
		3	7	6	41	9	54	7	71	7									
		4	24	19	67	14	114	14	146	14									
		5	28	23	85	18	167	21	222	22									
		6	34	27	103	22	181	23	208	20									
		7	Excellent	12	10	63	14	115	14	160	16								
		—	Not applicable	13	10	71	15	98	12	134	13								
		Total	124	100	465	100	802	100	1,020	100									
e. Other administrative staff and offices (registrar, financial aid, etc.)	Qladmin	1	Poor	4	3	22	5	40	5	49	5	5.1	4.8	.15	4.9	.12	4.9	.09	
		2	5	4	32	7	43	5	39	4									
		3	5	4	40	9	57	7	83	8									
		4	17	14	78	17	117	15	153	15									
		5	34	27	101	22	151	19	255	25									
		6	34	27	96	21	217	27	247	24									
		7	Excellent	16	13	83	18	107	13	160	16								
		—	Not applicable	9	7	15	3	71	9	32	3								
		Total	124	100	467	100	803	100	1,018	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	7	2	11	1	14	1	3.3	3.3	-.05	3.3	.01	3.3	.03	
		2	Some	13	11	46	10	101	13	117	11								
		3	Quite a bit	57	46	196	42	335	42	459	45								
		4	Very much	52	42	216	46	360	45	429	42								
		Total	123	100	465	100	807	100	1,019	100									
b. Providing support to help students succeed academically	SEacademic	1	Very little	7	6	17	4	28	3	23	2	2.7	3.1 *** ▼	-.49	3.0 *** ▼	-.40	3.1 *** ▼	-.55	
		2	Some	47	39	86	19	181	22	186	18								
		3	Quite a bit	48	39	211	46	373	46	481	47								
		4	Very much	20	16	147	32	223	28	325	32								
		Total	122	100	461	100	805	100	1,015	100									
c. Using learning support services (tutoring services, writing center, etc.)	SElearnsup	1	Very little	10	8	30	7	41	5	46	5	2.7	2.9	-.19	2.9 * ▼	-.24	3.0 *** ▼	-.37	
		2	Some	38	31	124	27	195	24	219	22								
		3	Quite a bit	51	41	173	38	350	44	395	39								
		4	Very much	24	20	134	29	217	27	355	35								
		Total	123	100	461	100	803	100	1,015	100									

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				UMD		UMD Peers		Competitors		National Comparison		Your seniors compared with					
				UMD		UMD Peers		Competitors		National Comparison		UMD	UMD Peers	Effect size ⁿ	Competitors	Effect size ⁿ	National Comparison
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean		Mean		Mean
d. Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	SEdiverse	1	Very little	23	19	89	19	168	21	185	18	2.3	2.4	-.08	2.3	-.02	2.4
		2	Some	48	39	172	37	311	39	368	36						
		3	Quite a bit	41	33	127	27	209	26	278	27						
		4	Very much	11	9	75	16	119	15	180	18						
		Total		123	100	463	100	807	100	1,011	100						
e. Providing opportunities to be involved socially	SEsocial	1	Very little	8	7	28	6	43	5	59	6	2.7	2.9 *	-.21	2.9 *	-.19	2.9 *
		2	Some	42	34	116	25	213	26	254	25						
		3	Quite a bit	47	39	188	41	337	42	400	39						
		4	Very much	25	20	132	28	214	27	303	30						
		Total		122	100	464	100	807	100	1,016	100						
f. Providing support for your overall well-being (recreation, health care, counseling, etc.)	SEwellness	1	Very little	10	8	36	8	50	6	64	6	2.7	2.9 **	-.27	3.0 **	-.28	2.9 **
		2	Some	39	32	105	23	181	23	235	23						
		3	Quite a bit	50	41	171	37	323	40	427	42						
		4	Very much	23	19	153	33	246	31	287	28						
		Total		122	100	465	100	800	100	1,013	100						
g. Helping you manage your non-academic responsibilities (work, family, etc.)	SEnonacad	1	Very little	48	39	160	34	280	35	340	33	1.9	2.0	-.13	2.0	-.10	2.0
		2	Some	46	37	177	38	310	38	389	38						
		3	Quite a bit	23	19	87	19	162	20	203	20						
		4	Very much	6	5	40	9	54	7	84	8						
		Total		123	100	464	100	806	100	1,016	100						
h. Attending campus activities and events (performing arts, athletic events, etc.)	SEactivities	1	Very little	11	9	49	11	56	7	90	9	2.5	2.7	-.17	2.8 ***	-.35	2.8 **
		2	Some	54	44	151	33	232	29	293	29						
		3	Quite a bit	42	34	168	36	324	40	408	40						
		4	Very much	16	13	96	21	194	24	223	22						
		Total		123	100	464	100	806	100	1,014	100						
i. Attending events that address important social, economic, or political issues	SEevents	1	Very little	25	20	79	17	116	15	140	14	2.1	2.4 **	-.26	2.4 ***	-.31	2.5 ***
		2	Some	63	51	195	42	335	42	387	38						
		3	Quite a bit	27	22	123	27	250	31	317	31						
		4	Very much	8	7	67	14	99	12	170	17						
		Total		123	100	464	100	800	100	1,014	100						

Seniors ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k						
				UMD	UMD Peers		Competitors		National Comparison		UMD	Your seniors compared with						
												UMD Peers		Competitors		National Comparison		
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	0	0	3	0	2	0	17.2	17.3	-.01	17.3	-.01	15.7	.16
	(Recorded version of tmprep created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	5	4	42	9	64	8	105	10							
	8	6-10 hrs	27	22	86	18	142	18	231	23								
	13	11-15 hrs	28	23	96	21	155	19	210	21								
	18	16-20 hrs	24	20	84	18	156	19	188	18								
	23	21-25 hrs	16	13	52	11	137	17	123	12								
	28	26-30 hrs	8	7	48	10	63	8	65	6								
	33	More than 30 hrs	15	12	59	13	89	11	94	9								
	Total	123	100	467	100	809	100	1,018	100									
b. Participating in co- curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	tmcocurrhrs	0	0 hrs	37	30	182	39	209	26	349	34	5.3	4.5	.12	5.2	.02	5.0	.04
	(Recorded version of tmcocurr created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	47	38	164	35	356	44	373	37							
	8	6-10 hrs	15	12	63	14	121	15	147	14								
	13	11-15 hrs	15	12	23	5	56	7	59	6								
	18	16-20 hrs	5	4	17	4	31	4	42	4								
	23	21-25 hrs	2	2	6	1	14	2	21	2								
	28	26-30 hrs	2	2	4	1	5	1	12	1								
	33	More than 30 hrs	0	0	7	2	11	1	14	1								
	Total	123	100	466	100	803	100	1,017	100									
c. Working for pay on campus	tmworkonhrs	0	0 hrs	79	64	322	69	465	58	624	61	4.9	3.9	.14	5.2	-.04	4.8	.01
	(Recorded version of tmworkon created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	5	4	22	5	52	6	67	7							
	8	6-10 hrs	13	10	43	9	110	14	111	11								
	13	11-15 hrs	12	10	38	8	85	11	93	9								
	18	16-20 hrs	6	5	26	6	53	7	77	8								
	23	21-25 hrs	6	5	10	2	25	3	29	3								
	28	26-30 hrs	2	2	6	1	10	1	8	1								
	33	More than 30 hrs	1	1	2	0	8	1	10	1								
	Total	124	100	469	100	808	100	1,019	100									

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

Seniors^a in Bio, Agric, & Nat Res

				Frequency Distributions								Statistical Comparisons ^k					
				UMD		UMD Peers		Competitors		National Comparison		Your seniors compared with					
Item wording or description	Variable name ^l	Values ^m	Response options									UMD	UMD Peers		Competitors		National Comparison
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	Effect size ⁿ	Mean	Effect size ⁿ	Mean
d. Working for pay off campus	tmworkoffhrs	0	0 hrs	63	52	213	46	410	51	527	52	8.6	9.8	-.11	8.0	.06	8.2
	(Recorded version of tmworkoff created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	4	3	33	7	46	6	61	6						
		8	6-10 hrs	8	7	28	6	70	9	71	7						
		13	11-15 hrs	16	13	44	9	69	9	91	9						
		18	16-20 hrs	8	7	41	9	78	10	99	10						
		23	21-25 hrs	11	9	47	10	68	8	62	6						
		28	26-30 hrs	6	5	22	5	36	4	48	5						
		33	More than 30 hrs	6	5	37	8	25	3	56	6						
	Total			122	100	465	100	802	100	1,015	100						
Estimated number of hours working for pay	tmworkhrs											13.3	13.6	-.02	13.1	.02	12.9
	(Continuous variable created by NSSE)																
e. Doing community service or volunteer work	tmservicehrs	0	0 hrs	56	46	233	50	336	42	510	51						
	(Recorded version of tmservice created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	50	41	175	38	382	48	370	37						
		8	6-10 hrs	10	8	33	7	47	6	84	8						
		13	11-15 hrs	4	3	13	3	16	2	23	2						
		18	16-20 hrs	0	0	5	1	9	1	14	1						
		23	21-25 hrs	0	0	2	0	6	1	2	0						
		28	26-30 hrs	1	1	2	0	0	0	1	0						
		33	More than 30 hrs	0	0	1	0	3	0	5	0						
	Total			121	100	464	100	799	100	1,009	100						
f. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	tmrelaxhrs	0	0 hrs	2	2	6	1	5	1	10	1	11.2	11.7	-.06	11.8	-.09	11.7
	(Recorded version of tmrelax created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	30	24	121	26	168	21	223	22						
		8	6-10 hrs	35	28	112	24	235	29	315	31						
		13	11-15 hrs	26	21	105	22	187	23	187	19						
		18	16-20 hrs	17	14	59	13	101	13	142	14						
		23	21-25 hrs	6	5	29	6	56	7	55	5						
		28	26-30 hrs	2	2	13	3	18	2	29	3						
		33	More than 30 hrs	5	4	22	5	32	4	47	5						
	Total			123	100	467	100	802	100	1,008	100						

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

Seniors^a in Bio, Agric, & Nat Res

Seniors ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k							
				UMD		UMD Peers		Competitors		National Comparison		UMD		Your seniors compared with					
														UMD Peers		Competitors		National Comparison	
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	108	89	353	76	691	86	793	79	.8	3.3 *** ▼	-.33	1.8 * ▼	-.17	3.0 *** ▼	-.28	
	(Recorded version of tmcare created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	9	7	41	9	44	5	80	8								
		8	6-10 hrs	0	0	16	3	18	2	38	4								
		13	11-15 hrs	3	2	14	3	7	1	22	2								
		18	16-20 hrs	0	0	6	1	10	1	10	1								
		23	21-25 hrs	0	0	3	1	9	1	7	1								
		28	26-30 hrs	0	0	5	1	2	0	6	1								
		33	More than 30 hrs	1	1	24	5	20	2	50	5								
		Total	121	100	462	100	801	100	1,006	100									
h. Commuting to campus (driving, walking, etc.)	tmcommutehrs	0	0 hrs	6	5	35	7	88	11	108	11	3.9	4.5	-.14	4.1	-.04	4.4	-.12	
	(Recorded version of tmcommute created by NSSE. Values are estimated number of hours per week.)	3	1-5 hrs	95	78	328	70	567	70	687	67								
		8	6-10 hrs	16	13	80	17	108	13	151	15								
		13	11-15 hrs	5	4	12	3	22	3	47	5								
		18	16-20 hrs	0	0	4	1	9	1	15	1								
		23	21-25 hrs	0	0	2	0	8	1	8	1								
		28	26-30 hrs	0	0	3	1	1	0	0	0								
		33	More than 30 hrs	0	0	4	1	2	0	6	1								
		Total	122	100	468	100	805	100	1,022	100									
16. Of the time you spend preparing for class in a typical 7-day week, about how much is on assigned reading?																			
reading	(Revised for 2014. Comparison data are limited to NSSE 2014 participating institutions.)	1	Very little	15	12	34	12	67	13	91	16	3.0	2.7 * ▲	.24	2.7 * ▲	.23	2.7 ** ▲	.29	
		2	Some	29	24	103	35	159	32	189	33								
		3	About half	31	25	84	28	138	28	154	27								
		4	Most	37	30	55	19	100	20	110	19								
		5	Almost all	11	9	19	6	33	7	34	6								
		Total	123	100	295	100	497	100	578	100									
tmreadinghrs												9.2	8.0	.17	8.0	.19	6.6 *** ▲	.40	
(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 2014 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

Seniors^a in Bio, Agric, & Nat Res

Seniors ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k							
				UMD		UMD Peers		Competitors		National Comparison		UMD		Your seniors compared with					
														UMD Peers		Competitors		National Comparison	
Item wording or description	Variable name ⁱ	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	0	0	0	0	2	0								
	(Collapsed version of tmreadinghrs created by NSSE.)	2	More than zero, up to 5 hrs	41	34	121	41	185	37	297	52								
		3	More than 5, up to 10 hrs	41	34	94	32	170	34	162	28								
		4	More than 10, up to 15 hrs	14	12	38	13	72	15	52	9								
		5	More than 15, up to 20 hrs	11	9	18	6	44	9	29	5								
		6	More than 20, up to 25 hrs	11	9	15	5	23	5	24	4								
		7	More than 25 hrs	3	2	7	2	2	0	8	1								
		Total	121	100	293	100	496	100	574	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	10	8	34	7	43	5	51	5	2.7	2.9 *	-.25	3.0 **	-.31	3.0 **	-.29	
	2	Some	37	30	107	23	184	23	247	24									
	3	Quite a bit	55	44	179	38	322	40	405	40									
	4	Very much	22	18	149	32	258	32	315	31									
	Total	124	100	469	100	807	100	1,018	100										
b. Speaking clearly and effectively	pgspeak	1	Very little	13	10	37	8	62	8	58	6	2.6	2.9 ***	-.36	2.8 *	-.24	2.9 **	-.29	
	2	Some	43	34	98	21	229	28	297	29									
	3	Quite a bit	50	40	192	41	311	39	393	39									
	4	Very much	19	15	137	30	202	25	267	26									
	Total	125	100	464	100	804	100	1,015	100										
c. Thinking critically and analytically	pgthink	1	Very little	2	2	9	2	10	1	15	1	3.1	3.4 ***	-.39	3.4 ***	-.53	3.4 ***	-.42	
	2	Some	30	24	53	11	63	8	103	10									
	3	Quite a bit	51	41	165	35	300	37	383	38									
	4	Very much	42	34	241	51	434	54	514	51									
	Total	125	100	468	100	807	100	1,015	100										
d. Analyzing numerical and statistical information	pganalyze	1	Very little	4	3	23	5	26	3	30	3	2.9	3.1 **	-.27	3.2 ***	-.34	3.2 ***	-.35	
	2	Some	37	30	91	19	130	16	170	17									
	3	Quite a bit	51	41	149	32	321	40	392	39									
	4	Very much	33	26	204	44	329	41	425	42									
	Total	125	100	467	100	806	100	1,017	100										

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

Seniors^a in Bio, Agric, & Nat Res

Seniors ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k								
				UMD		UMD Peers		Competitors		National Comparison		UMD		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
e. Acquiring job- or work- related knowledge and skills	pgwork	1	Very little	20	16	48	10	69	9	87	9	2.4	2.9 *** ▼	-0.51	2.8 *** ▼	-0.47	2.9 *** ▼	-0.54		
		2	Some	50	40	109	23	224	28	250	25									
		3	Quite a bit	40	32	155	33	281	35	350	34									
		4	Very much	15	12	155	33	231	29	330	32									
		Total	125	100	467	100	805	100	1,017	100										
f. Working effectively with others	pgothers	1	Very little	7	6	18	4	32	4	32	3	2.7	3.1 *** ▼	-0.41	3.0 *** ▼	-0.36	3.1 *** ▼	-0.43		
		2	Some	45	36	88	19	170	21	189	19									
		3	Quite a bit	46	37	200	43	339	42	458	45									
		4	Very much	26	21	160	34	263	33	337	33									
		Total	124	100	466	100	804	100	1,016	100										
g. Developing or clarifying a personal code of values and ethics	pgvalues	1	Very little	28	22	82	18	121	15	141	14	2.3	2.6 *** ▼	-0.33	2.6 *** ▼	-0.39	2.7 *** ▼	-0.44		
		2	Some	50	40	143	31	232	29	281	28									
		3	Quite a bit	34	27	123	26	270	34	351	34									
		4	Very much	13	10	119	25	182	23	246	24									
		Total	125	100	467	100	805	100	1,019	100										
h. Understanding people of other backgrounds (economic, racial/ethnic, political, religious, nationality, etc.)	pgdiverse	1	Very little	23	18	75	16	105	13	150	15	2.3	2.6 *** ▼	-0.34	2.6 ** ▼	-0.30	2.6 ** ▼	-0.29		
		2	Some	58	46	148	32	296	37	361	35									
		3	Quite a bit	31	25	127	27	256	32	300	29									
		4	Very much	13	10	118	25	148	18	207	20									
		Total	125	100	468	100	805	100	1,018	100										
i. Solving complex real- world problems	pgprobsolve	1	Very little	16	13	58	12	70	9	70	7	2.4	2.8 *** ▼	-0.36	2.8 *** ▼	-0.36	2.8 *** ▼	-0.47		
		2	Some	53	43	120	26	250	31	289	28									
		3	Quite a bit	41	33	161	34	296	37	381	38									
		4	Very much	14	11	129	28	191	24	276	27									
		Total	124	100	468	100	807	100	1,016	100										
j. Being an informed and active citizen	pgcitizen	1	Very little	24	19	70	15	111	14	95	9	2.3	2.6 ** ▼	-0.30	2.6 ** ▼	-0.25	2.7 *** ▼	-0.43		
		2	Some	45	36	145	31	275	34	314	31									
		3	Quite a bit	44	35	133	29	259	32	372	37									
		4	Very much	11	9	117	25	159	20	231	23									
		Total	124	100	465	100	804	100	1,012	100										

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Frequencies and Statistical Comparisons: Bio, Agric, & Nat Res

University of Minnesota Duluth

Seniors^a in Bio, Agric, & Nat Res

Seniors ^a in Bio, Agric, & Nat Res				Frequency Distributions								Statistical Comparisons ^k							
				UMD		UMD Peers		Competitors		National Comparison		UMD		Your seniors compared with					
														UMD Peers		Competitors		National Comparison	
Item wording or description	Variable name ^l	Values ^m	Response options	Count	%	Count	%	Count	%	Count	%	Mean	Mean						
18. How would you evaluate your entire educational experience at this institution?																			
	evalexp	1	Poor	3	2	16	3	17	2	18	2	3.0	3.3 ***	-.44	3.4 ***	-.52	3.3 ***	-.48	
		2	Fair	23	18	37	8	68	8	86	8								
		3	Good	72	58	199	43	332	41	465	46								
		4	Excellent	27	22	216	46	393	49	452	44								
		Total		125	100	468	100	810	100	1,021	100								
19. If you could start over again, would you go to the same institution you are now attending?																			
	sameinst	1	Definitely no	6	5	24	5	26	3	39	4	3.0	3.2 **	-.32	3.3 ***	-.44	3.3 ***	-.41	
		2	Probably no	23	19	47	10	81	10	99	10								
		3	Probably yes	61	50	185	40	300	37	387	38								
		4	Definitely yes	33	27	211	45	404	50	498	49								
		Total		123	100	467	100	811	100	1,023	100								

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res

University of Minnesota Duluth

Bio, Agric, & Nat Res

			First-Year Students ^a								Seniors ^a							
			UMD		UMD Peers		Competitors		National Comparison		UMD		UMD Peers		Competitors		National Comparison	
Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
20a. How many majors do you plan to complete? (Do not count minors.)	MAJnum	One	90	88	333	91	407	81	578	89	106	85	407	87	642	79	897	88
		More than one	12	12	34	9	98	19	72	11	19	15	62	13	172	21	127	12
		Total	102	100	367	100	505	100	650	100	125	100	469	100	814	100	1,024	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 (Recoded from MAJfirst)	Arts & Humanities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Biological Sci., Agriculture, & Natural Resources	102	100	367	100	505	100	650	100	125	100	469	100	814	100	1,024	100
		Physical Sci., Mathematics, & Computer Science	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		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	102	100	367	100	505	100	650	100	125	100	469	100	814	100	1,024	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 (Recoded from MAJsecond)	Arts & Humanities	1	8	8	24	33	34	7	10	1	5	15	24	54	31	13	10
		Biological Sci., Agriculture, & Natural Resources	3	25	6	18	17	18	23	32	6	32	17	27	58	34	56	44
		Physical Sci., Mathematics, & Computer Science	3	25	5	15	8	8	7	10	5	26	4	6	9	5	10	8
		Social Sciences	1	8	6	18	16	17	7	10	3	16	14	23	26	15	19	15
		Business	1	8	3	9	1	1	4	6	1	5	2	3	0	0	5	4
		Communications, Media, & Public Relations	0	0	0	0	5	5	2	3	1	5	2	3	2	1	0	0
		Education	1	8	3	9	2	2	2	3	0	0	1	2	2	1	4	3
		Engineering	0	0	0	0	1	1	1	1	1	5	1	2	2	1	0	0
		Health Professions	0	0	1	3	9	9	8	11	0	0	6	10	16	9	14	11
		Social Service Professions	1	8	1	3	2	2	5	7	0	0	0	0	0	0	2	2
		All Other	0	0	0	0	1	1	2	3	1	5	0	0	3	2	3	2
		Undecided, Undeclared	1	8	1	3	1	1	3	4	0	0	0	0	0	0	0	0
		Total	12	100	34	100	96	100	71	100	19	100	62	100	172	100	126	100

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res

University of Minnesota Duluth

Bio, Agric, & Nat Res

			First-Year Students ^a								Seniors ^a							
			UMD		UMD Peers		Competitors		National Comparison		UMD		UMD Peers		Competitors		National Comparison	
Item wording or description	Variable name	Response options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
21. What is your class level?	class	Freshman/First-year	94	92	335	92	480	96	597	92	1	1	0	0	0	0	0	0
		Sophomore	7	7	22	6	15	3	48	7	2	2	2	0	7	1	2	0
		Junior	1	1	5	1	6	1	4	1	16	13	21	5	89	11	62	6
		Senior	0	0	1	0	0	0	0	0	100	81	421	91	694	86	930	91
		Unclassified	0	0	1	0	1	0	1	0	4	3	20	4	21	3	23	2
		Total	102	100	364	100	502	100	650	100	123	100	464	100	811	100	1,017	100
22. Thinking about this current academic term, are you a full-time student?	fulltime	No	0	0	8	2	5	1	10	2	7	6	86	19	83	10	132	13
		Yes	101	100	357	98	499	99	638	98	117	94	378	81	726	90	885	87
		Total	101	100	365	100	504	100	648	100	124	100	464	100	809	100	1,017	100
23a. How many courses are you taking for credit this current academic term?	coursenum	0	0	0	2	1	0	0	0	0	0	0	25	5	2	0	33	3
		1	0	0	0	0	0	0	0	0	3	2	17	4	13	2	20	2
		2	1	1	5	1	2	0	5	1	0	0	26	6	35	4	44	4
		3	16	16	58	16	37	7	27	4	6	5	79	17	77	10	113	11
		4	58	57	146	40	244	49	248	38	25	20	164	35	258	32	317	31
		5	19	19	85	23	145	29	218	34	49	40	84	18	246	30	299	29
		6	3	3	46	13	41	8	94	14	20	16	33	7	97	12	113	11
		7 or more	5	5	23	6	34	7	57	9	21	17	36	8	82	10	79	8
		Total	102	100	365	100	503	100	649	100	124	100	464	100	810	100	1,018	100
b. Of these, how many are entirely online?	onlinenum	0	95	94	343	94	463	92	605	94	98	79	415	89	682	84	887	87
		1	5	5	16	4	30	6	32	5	20	16	39	8	100	12	114	11
		2	0	0	5	1	5	1	4	1	5	4	7	2	21	3	11	1
		3	1	1	0	0	2	0	3	0	1	1	1	0	5	1	3	0
		4	0	0	0	0	1	0	2	0	0	0	0	0	1	0	1	0
		5	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
		6	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
		7 or more	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		Total	101	100	364	100	501	100	647	100	124	100	464	100	811	100	1,017	100
Collapsed recode of courses taken online (Based on responses to coursenum and onlinenum)	onlinecscol	No courses taken online	95	94	343	94	463	92	605	94	98	79	415	90	679	84	886	87
		Some courses taken online	6	6	21	6	38	8	38	6	25	20	45	10	120	15	129	13
		All courses taken online	0	0	0	0	0	0	3	0	1	1	3	1	8	1	0	0
		Total	101	100	364	100	501	100	646	100	124	100	463	100	807	100	1,015	100

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res

University of Minnesota Duluth

Bio, Agric, & Nat Res

Bio, Agric, & Nat Res			First-Year Students ^a								Seniors ^a							
			UMD		UMD Peers		Competitors		National Comparison		UMD		UMD Peers		Competitors		National Comparison	
Item wording or description	Variable name	Response options	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	2	2	4	1	8	2	9	1	0	0	2	0	3	0	3	0
		C	2	2	10	3	8	2	22	3	6	5	10	2	13	2	22	2
		C+	6	6	22	6	12	2	39	6	10	8	20	4	29	4	40	4
		B-	7	7	29	8	16	3	33	5	16	13	52	11	58	7	89	9
		B	19	19	82	23	99	20	133	20	33	27	113	24	181	22	221	22
		B+	26	25	81	22	85	17	126	19	17	14	90	19	160	20	196	19
		A-	18	18	60	16	109	22	129	20	20	16	82	18	156	19	218	21
		A	22	22	76	21	163	33	159	24	21	17	95	20	211	26	227	22
	Total	102	100	364	100	500	100	650	100	123	100	464	100	811	100	1,016	100	
25. Did you begin college at this institution or elsewhere?	begincol	Started here	89	88	344	95	483	96	617	95	79	64	279	60	595	74	545	54
		Started elsewhere	12	12	19	5	19	4	32	5	45	36	185	40	209	26	469	46
		Total	101	100	363	100	502	100	649	100	124	100	464	100	804	100	1,014	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	Vocational or technical school	4	4	5	1	11	2	4	1	2	2	27	6	54	7	72	7
	attend_com	Community or junior college	10	10	25	7	12	2	30	5	39	31	206	44	135	17	424	42
	attend_col	4-year college or university other than this one	6	6	22	6	29	6	36	6	25	20	97	21	176	22	225	22
	attend_none	None	83	82	313	86	440	89	564	88	64	52	194	42	481	60	414	41
	attend_other	Other	1	1	7	2	10	2	15	2	2	2	10	2	21	3	32	3
27. What is the highest level of education you ever expect to complete?	edaspire	Some college but less than a bachelor's degree	2	2	10	3	13	3	16	2	4	3	6	1	16	2	30	3
		Bachelor's degree (B.A., B.S., etc.)	13	13	72	20	67	13	176	27	29	23	101	22	150	19	303	30
		Master's degree (M.A., M.S., etc.)	17	17	93	26	119	24	182	28	36	29	153	33	219	27	302	30
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	70	69	188	52	300	60	272	42	55	44	202	44	423	52	381	38
		Total	102	100	363	100	499	100	646	100	124	100	462	100	808	100	1,016	100

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Bio, Agric, & Nat Res

			First-Year Students ^a								Seniors ^a							
			UMD		UMD Peers		Competitors		National Comparison		UMD		UMD Peers		Competitors		National Comparison	
Item wording or description	Variable name	Response options	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	5	5	12	3	10	2	39	6	3	2	10	2	13	2	31	3
		High school diploma or G.E.D.	16	16	38	10	51	10	101	16	18	15	62	13	99	12	171	17
		Attended college, but did not complete degree	6	6	47	13	40	8	65	10	9	7	57	12	67	8	110	11
		Associate's degree (A.A., A.S., etc.)	22	22	31	9	52	10	97	15	23	19	42	9	109	14	133	13
		Bachelor's degree (B.A., B.S., etc.)	25	25	116	32	171	34	197	30	47	38	153	33	258	32	321	32
		Master's degree (M.A., M.S., etc.)	22	22	71	20	106	21	105	16	10	8	94	20	166	21	186	18
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	6	6	49	13	69	14	44	7	14	11	47	10	94	12	65	6
		Total	102	100	364	100	499	100	648	100	124	100	465	100	806	100	1,017	100
First-generation status (No parent holds a bachelor's degree)	firstgen	Not first-generation	53	52	236	65	346	69	346	53	71	57	294	63	518	64	572	56
	(Recoded from parented)	First-generation	49	48	128	35	153	31	302	47	53	43	171	37	288	36	445	44
		Total	102	100	364	100	499	100	648	100	124	100	465	100	806	100	1,017	100
29. What is your gender identity? (Revised for 2014; limited to NSSE 2014 institutions)	genderid	Man	37	36	60	25	113	30	135	37	47	38	102	35	164	33	258	45
		Woman	65	64	174	74	263	69	229	62	75	61	180	62	331	66	312	54
		Another gender identity	0	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0
		I prefer not to respond	0	0	2	1	3	1	3	1	1	1	8	3	1	0	7	1
		Total	102	100	236	100	379	100	369	100	123	100	290	100	498	100	577	100
30. Enter your year of birth (e.g., 1994):	agecat	19 or younger	101	99	347	96	485	97	611	94	1	1	5	1	5	1	3	0
	(Recoded from the information entered in birthyear)	20-23	0	0	11	3	9	2	26	4	108	88	351	76	687	85	730	72
		24-29	1	1	2	1	4	1	6	1	14	11	60	13	82	10	195	19
		30-39	0	0	2	1	1	0	4	1	0	0	40	9	25	3	62	6
		40-55	0	0	1	0	0	0	0	0	0	0	6	1	7	1	22	2
		Over 55	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0
		Total	102	100	363	100	499	100	647	100	123	100	462	100	807	100	1,014	100
31. Are you an international student or foreign national?	internat	No	95	94	354	98	480	96	625	97	121	99	444	96	762	95	974	96
		Yes	6	6	7	2	20	4	21	3	1	1	18	4	38	5	37	4
		Total	101	100	361	100	500	100	646	100	122	100	462	100	800	100	1,011	100

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res

University of Minnesota Duluth

Bio, Agric, & Nat Res

			First-Year Students ^a								Seniors ^a							
			UMD		UMD Peers		Competitors		National Comparison		UMD		UMD Peers		Competitors		National Comparison	
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	1	1	4	1	5	1	18	3	1	1	7	2	14	2	26	3
	re_asian	Asian	8	8	28	8	42	8	55	8	11	9	36	8	60	7	57	6
	re_black	Black or African American	4	4	33	9	11	2	37	6	2	2	15	3	22	3	26	3
	re_latino	Hispanic or Latino	4	4	33	9	21	4	83	13	2	2	17	4	14	2	64	6
	re_pacific	Native Hawaiian or Other Pacific Islander	0	0	1	0	3	1	9	1	1	1	4	1	3	0	11	1
	re_white	White	83	81	264	73	424	85	473	73	108	87	380	82	694	86	837	82
	re_other	Other	1	1	12	3	11	2	22	3	0	0	19	4	14	2	24	2
	re_pnr	I prefer not to respond	2	2	15	4	12	2	24	4	4	3	24	5	28	3	61	6
	re_all	American Indian or Alaska Native	1	1	2	1	0	0	5	1	0	0	1	0	4	0	3	0
	(Recoded from re_amind through re_pnr where each student is represented only once)	Asian	7	7	25	7	34	7	42	6	9	7	22	5	48	6	40	4
		Black or African American	4	4	26	7	7	1	23	4	2	2	11	2	16	2	18	2
		Hispanic or Latino	4	4	21	6	12	2	63	10	1	1	9	2	8	1	33	3
		Native Hawaiian/Other Pac. Islander	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4	0
		White	82	80	245	67	401	80	431	67	103	83	350	75	664	82	765	75
		Other	1	1	7	2	8	2	8	1	0	0	12	3	7	1	12	1
		Multiracial	1	1	23	6	25	5	51	8	5	4	36	8	33	4	80	8
		I prefer not to respond	2	2	15	4	12	2	24	4	4	3	24	5	28	3	61	6
	Total		102	100	364	100	499	100	648	100	124	100	465	100	808	100	1,016	100
33. Are you a member of a social fraternity or sorority?	greek	No	97	96	346	95	460	92	605	94	117	94	428	93	755	94	975	96
		Yes	4	4	19	5	38	8	40	6	7	6	33	7	48	6	40	4
	Total		101	100	365	100	498	100	645	100	124	100	461	100	803	100	1,015	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)	81	80	279	77	437	88	493	77	10	8	41	9	68	8	145	14
		Fraternity or sorority house	0	0	0	0	5	1	2	0	0	0	2	0	9	1	3	0
		Residence (house, apartment, etc.) within walking distance to the institution	14	14	31	9	30	6	50	8	44	36	193	42	527	65	457	45
		Residence (house, apartment, etc.) farther than walking distance to the institution	6	6	51	14	24	5	83	13	68	55	222	48	193	24	400	39
		None of the above	0	0	2	1	1	0	16	2	1	1	4	1	10	1	12	1
	Total		101	100	363	100	497	100	644	100	123	100	462	100	807	100	1,017	100
35. Are you a student-athlete on a team sponsored by your institution's athletics department?	athlete	No	90	89	344	95	465	94	585	91	116	94	443	96	771	96	937	93
		Yes	11	11	18	5	30	6	55	9	8	6	17	4	33	4	74	7
	Total		101	100	362	100	495	100	640	100	124	100	460	100	804	100	1,011	100

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res

University of Minnesota Duluth

Bio, Agric, & Nat Res

			First-Year Students ^a								Seniors ^a							
			UMD		UMD Peers		Competitors		National Comparison		UMD		UMD Peers		Competitors		National Comparison	
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	100	98	363	100	495	100	636	99	123	100	456	98	791	99	978	97
		Yes	2	2	0	0	1	0	5	1	0	0	7	2	12	1	31	3
		Total	102	100	363	100	496	100	641	100	123	100	463	100	803	100	1,009	100
37a. Have you been diagnosed with any disability or impairment?	disability	No	95	93	326	90	464	93	575	89	110	89	417	90	748	93	892	88
		Yes	7	7	31	9	26	5	56	9	7	6	27	6	50	6	84	8
		I prefer not to respond	0	0	6	2	8	2	18	3	7	6	17	4	9	1	39	4
		Total	102	100	363	100	498	100	649	100	124	100	461	100	807	100	1,015	100
b. [If answered "yes"] Which of the following has been diagnosed? (Select all that apply.)	dis_sense	A sensory impairment (vision or hearing)	0	0	4	12	3	11	10	16	0	0	2	6	6	11	6	6
	dis_mobility	A mobility impairment	1	14	3	9	5	18	5	8	1	14	3	9	2	4	7	6
	dis_learning	A learning disability (e.g., ADHD, dyslexia)	2	29	16	48	12	43	31	48	1	14	16	48	23	43	55	51
	dis_mental	A mental health disorder	1	14	9	27	10	36	14	22	5	71	10	30	21	40	25	23
	dis_other	A disability or impairment not listed above	3	43	6	18	6	21	11	17	0	0	6	18	5	9	10	9
Disability or impairment	disability_all	A sensory impairment	0	0	2	1	1	0	7	1	0	0	1	0	4	0	3	0
	(Recoded from	A mobility impairment	1	1	3	1	3	1	2	0	1	1	2	0	0	0	4	0
	disability and	A learning disability	2	2	12	3	7	1	22	3	1	1	10	2	21	3	40	4
	dis_sense	A mental health disorder	1	1	4	1	6	1	7	1	5	4	1	0	17	2	13	1
	through	A disability or impairment not listed	3	3	4	1	3	1	6	1	0	0	3	1	4	0	6	1
	dis_other	More than one disability or	0	0	6	2	6	1	12	2	0	0	10	2	4	0	17	2
	where each	impairment	0	0	6	2	6	1	12	2	0	0	10	2	4	0	17	2
	student is	No disability or impairment	95	93	326	90	464	93	575	89	110	89	417	90	748	93	892	88
	represented only once)	Prefer not to respond	0	0	6	2	8	2	18	3	7	6	17	4	9	1	39	4
		Total	102	100	363	100	498	100	649	100	124	100	461	100	807	100	1,014	100
38. Which of the following best describes your sexual orientation? (Question administered per institution request)	sexorient14	Heterosexual	--	--	207	86	372	94	367	86	--	--	249	86	498	93	653	86
		Gay	--	--	3	1	3	1	2	0	--	--	3	1	6	1	6	1
		Lesbian	--	--	7	3	1	0	1	0	--	--	3	1	4	1	5	1
		Bisexual	--	--	7	3	5	1	13	3	--	--	10	3	14	3	33	4
		Another sexual orientation	--	--	4	2	2	1	1	0	--	--	2	1	1	0	2	0
		Questioning or unsure	--	--	1	0	4	1	10	2	--	--	3	1	4	1	8	1
		I prefer not to respond	--	--	11	5	10	3	35	8	--	--	19	7	10	2	56	7
		Total	--	--	240	100	397	100	429	100	--	--	289	100	537	100	763	100

NSSE 2014 Major Field Report, Part II: Comparisons to Other Institutions

Respondent Profile: Bio, Agric, & Nat Res

University of Minnesota Duluth

Bio, Agric, & Nat Res

First-Year Students^a

Seniors^a

Item wording or description	Variable name	Response options	First-Year Students ^a								Seniors ^a							
			UMD		UMD Peers		Competitors		National Comparison		UMD		UMD Peers		Competitors		National Comparison	
			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	64	63	179	75	266	70	231	63	76	61	187	63	338	68	318	55
		Male	38	37	60	25	116	30	138	37	49	39	108	37	162	32	263	45
		Total	102	100	239	100	382	100	369	100	125	100	295	100	500	100	581	100
Institution-reported race or ethnicity	IRrace	American Indian or Alaska Native	2	2	1	1	1	0	4	1	2	2	3	1	6	1	6	1
		Asian	5	5	8	5	30	6	33	6	10	8	9	4	35	4	24	3
		Black or African American	4	4	25	14	8	2	16	3	2	2	6	3	15	2	19	2
		Hispanic or Latino	4	4	18	10	21	4	78	15	3	2	6	3	9	1	55	6
		Native Hawaiian/Other Pac. Islander	0	0	0	0	2	0	1	0	1	1	0	0	0	0	3	0
		White	83	81	106	61	400	83	351	67	106	85	189	79	668	86	682	78
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Foreign or nonresident alien	4	4	6	3	12	2	11	2	0	0	7	3	25	3	18	2
		Two or more races/ethnicities	0	0	5	3	6	1	14	3	0	0	9	4	13	2	20	2
		Unknown	0	0	4	2	1	0	16	3	1	1	10	4	8	1	42	5
		Total	102	100	173	100	481	100	524	100	125	100	239	100	779	100	869	100
Institution-reported class level	IRclass	Freshman/First-Year	102	100	367	100	505	100	650	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	125	100	469	100	814	100	1,024	100
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	102	100	367	100	505	100	650	100	125	100	469	100	814	100	1,024	100
Institution-reported first-time first-year (FTFY) status	IRftfy	No	1	1	20	5	15	3	69	11	125	100	437	93	814	100	1,024	100
		Yes	101	99	347	95	490	97	581	89	0	0	32	7	0	0	0	0
		Total	102	100	367	100	505	100	650	100	125	100	469	100	814	100	1,024	100
Institution-reported enrollment status	IREnrollment	Not full-time	1	1	10	3	9	2	18	3	8	6	59	13	68	8	90	9
		Full-time	101	99	357	97	496	98	632	97	117	94	410	87	746	92	934	91
		Total	102	100	367	100	505	100	650	100	125	100	469	100	814	100	1,024	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. An effect size of .2 is generally considered small, .5 medium, and .8 large.
- 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. An effect size of .2 is generally considered small, .5 medium, and .8 large.
- 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.