

## Scale Mean Scores and Selected Student Comparisons

University of Toledo

### First-Year Students

BCSSE Scales	Variable <sup>b</sup>	All Students			First-Generation <sup>a</sup>			Self-Reported High School Grades		
					Yes	No	ES	A- or higher	B+ or lower	ES
		Mean	SD	N	Mean	Mean		Mean	Mean	
<b>Quantitative Reasoning</b> <i>High school engagement with analysis and numerical information</i>	HS_QR	29.5	14.7	1225	28.4	30.2 *	-.12	30.2	28.2 *	.14
<b>Learning Strategies</b> <i>Use of effective learning strategies in high school</i>	HS_LS	37.0	13.4	1231	36.6	37.3	-.05	38.0	35.2 ***	.21
<b>Collaborative Learning</b> <i>Expectation to interact and collaborate with peers</i>	EXP_CL	37.7	12.0	1201	37.1	38.1	-.08	38.0	37.2	.07
<b>Student-Faculty Interaction</b> <i>Expectation to interact and engage with faculty</i>	EXP_SFI	30.8	13.5	1198	31.3	30.4	.07	30.5	31.4	-.06
<b>Expected Discussions with Diverse Others</b> <i>Expectation to engage in discussions with diverse others</i>	EXP_DD	43.5	14.5	1194	43.4	43.5	-.01	44.3	42.1 *	.15
<b>Expected Academic Perseverance</b> <i>Student certainty that they will persist in the face of academic adversity</i>	EXP_PER	42.0	10.1	1189	42.6	41.7	.09	42.5	41.3	.12
<b>Expected Academic Difficulty</b> <i>Expected academic difficulty during the coming year</i>	EXP_DIF	29.6	10.6	1186	29.1	30.0	-.08	29.9	29.1	.07
<b>Perceived Academic Preparation</b> <i>Student perception of their academic preparation</i>	PER_PREP	43.1	9.9	1180	43.2	43.0	.02	44.0	41.4 ***	.27
<b>Importance of Campus Environment</b> <i>Student-rated importance that the institution provides a challenging and supportive environment</i>	IMP_CAMP	45.1	10.7	1181	44.9	45.3	-.03	45.9	43.7 **	.20

---

# BCSSE 2019

## First-Year Student Institutional Report

University of Toledo

---

**Please note:** The layout of this file is optimized for printing and PDF creation, not on-screen viewing. When the Excel version is viewed on screen, some cells appear to contain truncated text or misplaced line breaks. This is due to differences in Excel between on-screen display and what appears in print or PDF.

**First-year students were recent high school graduates who met one of the following criteria:**

- All paper survey respondents regardless of high school graduation year.
- Web respondents who graduated high school in 2019.
- Web respondents who graduated high school in 2018 or 2017 and did not attend another institution since graduating high school.
- Web respondents who graduated high school in 2018 or 2017 and did attend another institution since graduating high school and expects to transfer 11 or fewer credits.

**Transfer students were those respondents who met the following criteria:**

- All web respondents who attended a college or university after graduation from high school, expects to transfer 12 or more credits, and graduated high school prior to the current year.

**Delayed-entry (older) students were those respondents who met one of the following criteria:**

- Web respondents who graduated high school in 2016 or earlier and did not attend another institution since graduating high school.
- Web respondents who graduated high school in 2016 or earlier and did attend another institution since graduating high school and expects to transfer 11 or fewer credits.

---

**BCSSE 2019**  
**First-Year Student Respondent Profile**  
University of Toledo

---

# Respondent Profile

## About This Report

The *Respondent Profile* presents overall student demographic information, as well as by first-generation status and high school grades. The display below highlights important details in the report to keep in mind when interpreting your results. For more information please visit our website ([bcse.indiana.edu](https://bcse.indiana.edu)) or contact your BCSSE Project Services team.

- Student status:** As reported by your students.
- Item numbers:** Numbering corresponds to the survey facsimile and codenook available on the BCSSE website.
- Item wording and variable names:** Survey items are in the same order and wording as they appear on the instrument. Variable names are included for easy reference to your data file and codebook.
- Response options:** Response options are worded as they appear on the instrument (except where abbreviations are used for formatting purposes).
- Count and column percentage (%):** The Count column contains the number of students who selected the corresponding response option. The column percentage is the percentage of students selecting the corresponding response option. Percentages may not sum to 100 due to rounding.



### Respondent Profile

BCSSEville State University

**First-Year Students**

Item wording or description	Variable name	Response options	All Students		First-Generation*				Self-Reported HS Grades			
			Count	%	Yes	No	A- or Higher	B+ or Lower	Count	%	Count	%
28. This institution was your:	ecchoice1?	First choice Second choice Third choice or lower Total	969 222 39 1230	79 18 3 100	534 124 25 683	78 18 3 100	434 97 14 545	80 18 3 100	587 117 18 722	81 16 2 100	378 104 21 503	75 21 4 100
29. What is your gender identity?	cggender	Man Woman Another gender identity I prefer not to respond Total	599 622 5 7 1233	49 50 0 1 100	327 349 5 5 686	48 51 1 1 100	272 272 0 1 545	50 50 0 0 100	299 419 3 4 725	41 58 0 1 100	297 201 2 3 503	59 40 0 1 100
30. Are you an international student or foreign national?	cinemat	No Yes Total	1212 15 1227	99 1 100	673 9 682	99 1 100	537 6 543	99 1 100	712 10 722	99 1 100	495 5 500	99 1 100
31. How would you describe yourself? (Select all that apply)	rs_race	American Indian or Alaska Native Asian Black or African American Hispanic or Latino Middle Eastern or North African Native Hawaiian or Other Pacific Islander White Another race or ethnicity Multiracial I prefer not to respond Total	8 10 80 74 0 1 943 3 95 10 1233	1 1 7 6 0 0 76 0 8 1 100	2 6 68 70 0 1 473 2 58 6 686	0 1 10 0 0 0 69 0 8 1 100	6 4 21 4 0 0 469 1 37 3 545	1 1 4 1 0 0 86 0 7 1 100	6 7 24 3 0 0 605 0 54 4 724	1 1 3 3 0 0 84 0 7 1 100	1 1 65 10 0 0 334 3 41 6 504	0 1 13 10 0 0 66 1 8 1 100

### First-Year Students

Item wording or description	Variable name	Response options	All Students		First-Generation <sup>a</sup>				Self-Reported HS Grades				
			Count	%	Yes		No		A- or Higher		B+ or Lower		
					Count	%	Count	%	Count	%	Count	%	
<b>Number of Surveys Completed</b>	bmodecmp												
Mode of completion		Paper	0	0									
		Web	1,291	100									
		Total	1,291	100									
<b>1. Please indicate the year you graduated from high school:</b>													
	hgradyr	Prior to 2016	0	0	0	0	0	0	0	0	0	0	0
		2016	0	0	0	0	0	0	0	0	0	0	0
		2017	18	1	6	1	8	1	8	1	10	2	
		2018	46	4	22	4	15	2	16	2	28	6	
		2019	1,222	95	495	95	632	96	801	97	416	92	
		Total	1,286	100	523	100	655	100	825	100	454	100	
<b>W1. Since graduating from high school, which of the following have you done? (Select all that apply.)</b>													
<i>(Online survey respondents only. The paper survey did not include this item.)</i>													
	tattend	Attend another college or university	10	18	4	15	4	19	0	0	10	28	
	tmilitary	Military service	5	9	4	15	1	5	2	10	3	8	
	twork_ft	Work full-time	24	41	13	50	6	29	8	38	16	44	
	twork_pt	Work part-time	29	50	15	58	11	52	13	62	16	44	
	thome	Homemaker or stay at home spouse	2	4	1	4	0	0	1	5	1	3	
	tvolunteer	Volunteer	6	10	1	4	4	19	2	10	4	11	
	tsinceoth	Other	6	10	0	0	4	19	3	14	2	6	
<b>W2. Since graduating from high school, which of the following types of schools have you attended other than this institution? (Select all that apply.)</b>													
<i>(Online survey respondents only. The paper survey did not include this item.)</i>													
	tattend_voc	Vocational or technical school	0	0	0	0	0	0	0	0	0	0	
	tattend_com	Community or junior college	3	30	2	50	1	25	0	0	3	33	
	tattend_col	4-year college or university other than this one	5	56	1	25	3	75	0	0	5	56	
	tattend_other	Other	1	10	1	25	0	0	0	0	1	11	
<b>W3. About how many credits do you expect to transfer to this institution?</b>													
<i>(Online survey respondents only. The paper survey did not include this item.)</i>													
	ttrnsfr_cr	0	6	50	2	50	3	60	1	100	5	50	
		1-11	5	42	2	50	2	40	0	0	5	50	
		12-30	1	8	0	0	0	0	0	0	0	0	
		31-45	0	0	0	0	0	0	0	0	0	0	
		46-60	0	0	0	0	0	0	0	0	0	0	
		More than 60	0	0	0	0	0	0	0	0	0	0	
		Total	12	100	4	100	5	100	1	100	10	100	

### First-Year Students

Item wording or description	Variable name	Response options	All Students		First-Generation <sup>a</sup>				Self-Reported HS Grades				
			Count	%	Yes		No		A- or Higher		B+ or Lower		
					Count	%	Count	%	Count	%	Count	%	
<b>2. From which type of high school did you graduate? (Select only one.)</b>													
	htype13	Public	1,000	90	429	93	495	89	641	90	356	91	
		Private, religiously-affiliated	104	9	34	7	58	10	69	10	35	9	
		Private, not religiously affiliated	3	0	0	0	2	0	2	0	1	0	
		Home school	0	0	0	0	0	0	0	0	0	0	
		Other (e.g., G.E.D.)	0	0	0	0	0	0	0	0	0	0	
		<b>Total</b>	<b>1,107</b>	<b>100</b>	<b>463</b>	<b>100</b>	<b>555</b>	<b>100</b>	<b>712</b>	<b>100</b>	<b>392</b>	<b>100</b>	
<b>3. What were most of your high school grades? (Select only one.)</b>													
	hgrades17	C- or lower	1	0	1	0	0	0	0	0	1	0	
		C	12	1	9	2	3	0	0	0	12	3	
		C+	32	2	16	3	12	2	0	0	32	7	
		B-	35	3	13	2	14	2	0	0	35	8	
		B	162	13	80	15	72	11	0	0	162	36	
		B+	212	17	103	20	91	14	0	0	212	47	
		A-	224	17	80	15	124	19	224	27	0	0	
		A	500	39	185	35	281	43	500	60	0	0	
		A+	103	8	35	7	59	9	103	12	0	0	
		Grades not used	3	0	1	0	1	0	0	0	0	0	
		<b>Total</b>	<b>1,284</b>	<b>100</b>	<b>523</b>	<b>100</b>	<b>657</b>	<b>100</b>	<b>827</b>	<b>100</b>	<b>454</b>	<b>100</b>	
<b>4. To date, in which of the following math classes have you earned a grade of "C" or better? (Select all that apply.)</b>													
	halg13	Algebra II	1,154	93	457	92	607	94	768	95	385	90	
	hprecalc13	Pre-calculus/Trigonometry	866	71	318	64	491	76	654	81	212	50	
	hcalc13	Calculus	364	30	100	20	232	36	316	40	48	11	
	hstats13	Probability or Statistics	364	30	145	29	189	29	254	32	110	26	
<b>5. If you completed the SAT and/or ACT, please enter your scores below (as best you remember):</b> (Recorded SAT and ACT composite created by BCSSE.)													
	sat_act17r	900 or lower	84	7	52	10	27	4	29	4	55	13	
		901 - 1000	115	9	63	13	41	6	35	4	79	18	
		1001 - 1100	257	21	138	28	102	16	122	16	135	32	
		1101 - 1200	309	25	117	23	173	27	216	28	93	22	
		1201 - 1300	239	20	81	16	145	23	198	25	41	10	
		1301 - 1400	164	14	39	8	117	18	141	18	23	5	
		1401 - 1600	46	4	9	2	32	5	43	5	2	0	
		<b>Total</b>	<b>1,214</b>	<b>100</b>	<b>499</b>	<b>100</b>	<b>637</b>	<b>100</b>	<b>784</b>	<b>100</b>	<b>428</b>	<b>100</b>	

### First-Year Students

Item wording or description	Variable name	Response options	All Students		First-Generation <sup>a</sup>				Self-Reported HS Grades			
					Yes		No		A- or Higher		B+ or Lower	
			Count	%	Count	%	Count	%	Count	%	Count	%
<b>22. Which of the following sources are you using to pay your education expenses (tuition, fees, books, room &amp; board, etc.)? For each, tell us if you are using, not using, or not sure.</b>												
Support from parents or relatives	cparents	Using	791	67	275	53	512	79	511	67	279	68
		Not using	294	25	183	35	108	17	190	25	103	25
		Not sure	91	8	59	11	31	5	63	8	28	7
		Total	1,176	100	517	100	651	100	764	100	410	100
Loans	cloans	Using	656	56	326	63	329	51	401	53	254	62
		Not using	407	35	143	28	260	40	285	37	121	30
		Not sure	112	10	47	9	62	10	77	10	35	9
		Total	1,175	100	516	100	651	100	763	100	410	100
Grants or scholarships	cgrants	Using	1,076	91	456	88	613	94	732	95	343	84
		Not using	58	5	41	8	17	3	20	3	38	9
		Not sure	43	4	20	4	22	3	16	2	27	7
		Total	1,177	100	517	100	652	100	768	100	408	100
Employment on- or off-campus	cjob	Using	621	53	300	58	317	49	408	53	213	52
		Not using	361	31	143	28	215	33	237	31	124	30
		Not sure	195	17	75	14	119	18	119	16	74	18
		Total	1,177	100	518	100	651	100	764	100	411	100
Personal savings or other sources	cpersonal	Using	792	67	353	68	433	67	538	71	254	62
		Not using	242	21	95	18	146	22	142	19	98	24
		Not sure	142	12	69	13	72	11	82	11	60	15
		Total	1,176	100	517	100	651	100	762	100	412	100
<b>23. What do you expect most of your grades will be during the coming year? (Select only one.)</b>												
cgrades19	C- or lower	1	0	1	0	0	0	0	0	1	0	
	C	7	1	5	1	2	0	2	0	5	1	
	C+	12	1	5	1	7	1	3	0	9	2	
	B-	46	4	20	4	26	4	17	2	29	7	
	B	209	18	104	20	105	16	110	14	99	24	
	B+	285	24	132	25	149	23	161	21	124	30	
	A-	346	29	146	28	198	30	258	34	88	21	
	A	277	23	107	21	168	26	217	28	58	14	
	Grades not used	0	0	0	0	0	0	0	0	0	0	
	Total	1,183	100	520	100	655	100	768	100	413	100	

### First-Year Students

Item wording or description	Variable name	Response options	All Students		First-Generation <sup>a</sup>				Self-Reported HS Grades			
			Count	%	Yes		No		A- or Higher		B+ or Lower	
					Count	%	Count	%	Count	%	Count	%
<b>24. Do you expect to graduate from this institution?</b>												
	cintgrad	No	4	0	2	0	2	0	2	0	2	0
		Yes	1,122	95	494	95	620	95	736	96	384	93
		Uncertain	60	5	26	5	34	5	32	4	28	7
		Total	1,186	100	522	100	656	100	770	100	414	100
<b>25. Do you know what your major will be?</b>												
	cmajor	No	143	12	57	11	85	13	82	11	60	14
		Yes, specify	1,046	88	465	89	572	87	690	89	355	86
		Total	1,189	100	522	100	657	100	772	100	415	100
<i>(Recoded variable cmajcode into one of 12 major categories listed at right.)</i>	cmajrcol	Arts & Humanities	24	2	12	3	12	2	17	2	7	2
		Biological Sci., Agriculture, & Natural Resources	76	7	31	7	44	8	50	7	26	7
		Physical Sci., Mathematics, & Computer Science	60	6	30	6	30	5	39	6	21	6
		Social Sciences	37	4	17	4	20	3	19	3	18	5
		Business	140	13	58	12	82	14	90	13	49	14
		Communications, Media, & Public Relations	7	1	4	1	3	1	3	0	4	1
		Education	49	5	26	6	23	4	35	5	14	4
		Engineering	160	15	51	11	106	18	110	16	50	14
		Health Professions	415	40	183	39	229	40	291	42	124	35
		Social Service Professions	66	6	48	10	17	3	28	4	38	11
		All Other	10	1	6	1	4	1	7	1	3	1
		Undecided, Undeclared	3	0	0	0	3	1	2	0	1	0
		Total	1,047	100	466	100	573	100	691	100	355	100
<b>26. Are you (or will you be) a full-time student at this institution?</b>												
	cfulltime18	No	15	1	8	2	7	1	9	1	6	1
		Yes	1,167	99	513	98	648	99	757	99	408	99
		Total	1,182	100	521	100	655	100	766	100	414	100
<b>27. How many of your close friends will attend this institution during the coming year?</b>												
	cfriends	None	349	30	133	26	215	33	229	30	119	29
		1	208	18	111	21	96	15	132	17	76	18
		2	188	16	86	17	102	16	130	17	57	14
		3	103	9	54	10	48	7	71	9	32	8
		4 or more	333	28	137	26	194	30	204	27	129	31
		Total	1,181	100	521	100	655	100	766	100	413	100

### First-Year Students

Item wording or description	Variable name	Response options	All Students		First-Generation <sup>a</sup>				Self-Reported HS Grades			
					Yes		No		A- or Higher		B+ or Lower	
			Count	%	Count	%	Count	%	Count	%	Count	%
<b>28. This institution was your:</b>												
	cchoice17	First choice	827	70	363	70	460	70	552	72	274	67
		Second choice	267	23	128	25	139	21	160	21	107	26
		Third choice or lower	86	7	31	6	55	8	55	7	30	7
		Total	1,180	100	522	100	654	100	767	100	411	100
<b>29. What is your gender identity?</b>												
	cgender	Man	459	39	178	34	279	43	258	34	201	49
		Woman	710	60	335	64	373	57	501	65	208	50
		Another gender identity	7	1	5	1	2	0	3	0	3	1
		I prefer not to respond	5	0	3	1	2	0	4	1	1	0
		Total	1,181	100	521	100	656	100	766	100	413	100
<b>30. Are you an international student or foreign national?</b>												
	cinternat	No	1,135	97	506	97	626	96	735	96	398	97
		Yes	41	3	16	3	25	4	27	4	14	3
		Total	1,176	100	522	100	651	100	762	100	412	100
<b>31. How would you describe yourself? (Select all that apply)</b>												
	crace	American Indian or Alaska Native	3	0	1	0	2	0	1	0	2	0
		Asian	36	3	11	2	25	4	26	3	9	2
		Black or African American	123	10	73	14	50	8	49	6	74	18
		Hispanic or Latino	21	2	18	3	3	0	11	1	10	2
		Middle Eastern or North African	17	1	5	1	12	2	9	1	8	2
		Native Hawaiian or Other Pacific Islander	2	0	0	0	2	0	2	0	0	0
		White	847	72	339	65	507	77	600	79	247	60
		Another race or ethnicity	2	0	0	0	2	0	1	0	1	0
		Multiracial	127	11	74	14	53	8	65	9	61	15
		I prefer not to respond	0	0	0	0	0	0	0	0	0	0
		Total	1,178	100	521	100	656	100	764	100	412	100

### First-Year Students

Item wording or description	Variable name	Response options	All Students		First-Generation <sup>a</sup>				Self-Reported HS Grades			
			Count	%	Yes		No		A- or Higher		B+ or Lower	
					Count	%	Count	%	Count	%	Count	%
<b>32. Regarding your parents (or those who raised you), what is the highest level of education completed by either of them?</b>												
	cpardegr18	Did not finish high school	26	2	26	5	0	0	11	1	15	4
		High school diploma or G.E.D.	199	17	199	38	0	0	102	13	96	23
		Attended college, but did not complete degree	152	13	152	29	0	0	88	12	64	15
		Associate's degree (A.A., A.S., etc.)	146	12	146	28	0	0	99	13	47	11
		Bachelor's degree (B.A., B.S., etc.)	367	31	0	0	367	56	251	33	115	28
		Master's degree (M.A., M.S., etc.)	223	19	0	0	223	34	164	21	59	14
		Doctoral or professional degree (Ph.D., J.D., M.D., etc.)	67	6	0	0	67	10	49	6	18	4
		Total	1,180	100	523	100	657	100	764	100	414	100
	First-generation status (Neither parent holds a bachelor's degree. Recoded from cpardegr18)	bfirstgen										
		First-generation	523	44	523	100	0	0	300	39	222	54
		Not first-generation	657	56	0	0	657	100	464	61	192	46
		Total	1,180	100	523	100	657	100	764	100	414	100
<b>33. Which of the following best describes where you will be living while attending college?</b>												
	cliving18	Campus housing (other than a fraternity or sorority house)	777	66	318	61	458	70	513	67	264	64
		Fraternity or sorority house	6	1	1	0	5	1	2	0	4	1
		House, apartment, or other residence within walking distance to campus	71	6	42	8	29	4	40	5	30	7
		House, apartment, or other residence farther than walk. dist. to campus	321	27	160	31	161	25	205	27	115	28
		Not applicable: No campus, entirely online program, etc.	2	0	0	0	2	0	2	0	0	0
		Not applicable: Homeless or in transition	0	0	0	0	0	0	0	0	0	0
		Total	1,177	100	521	100	655	100	762	100	413	100

---

## **BCSSE 2019**

# **First-Year Student Frequencies and Statistical Comparisons**

University of Toledo

---

# Frequencies and Statistical Comparisons

## About This Report

The Frequencies and Statistical Comparisons report presents item-by-item student responses and mean comparisons that allow you to examine patterns of similarity and difference between groups students at your institution. The display below highlights important details in the report to keep in mind when interpreting your results. For more information please visit our website ([bcse.indiana.edu](http://bcse.indiana.edu)) or contact a member of the BCSSE team.

- Student status:** As reported by your students.
- Item numbers:** Numbering corresponds to the survey facsimile and codenook available on the BCSSE website.
- Item wording and variable names:** Survey items are in the same order and wording as they appear on the instrument. Variable names are included for easy reference to your data file and codebook.
- Values and response options:** Values are used to calculate means. Response options are worded as they appear on the instrument.
- Count and column percentage (%):** The Count column contains the number of students who selected the corresponding response option. The column percentage is the percentage of students selecting the corresponding response option. Percentages may not sum to 100 due to rounding.
- Overall mean:** Mean scores for each item. Mean item scores by within-campus comparison groups are presented on the right side. Mean calculated from ordered response options (e.g., Very often, Often, Sometimes, Never) assume equal intervals and should be interpreted with caution.
- Statistical comparisons:** Items with mean differences that are larger than would be expected by chance are noted with asterisks referring to three significance levels (\* $p < .05$ , \*\* $p < .01$ , \*\*\* $p < .001$ ). Significance levels indicate the probability that an observed difference is due to chance. Statistical significance does not guarantee the result is substantive or important. Large sample sizes tend to generate more statistically significant results even though the magnitude of mean differences may be inconsequential. Consult effect sizes (see #8) to judge the practical meaning of differences. Unless otherwise noted, statistical comparisons are two-tailed independent  $t$ -tests.

**BCSSE**  
beginning college survey  
of student engagement

**First-Year Students**

**Frequencies and Statistical Comparisons**  
BCSSEville State University

Item wording or description of variable	Variable name	Values	Response options	Frequency Distributions								Statistical Comparisons					
				All Students		First-Generation*		Self-Reported HS Grades A- or higher		Self-Reported HS Grades B+ or lower		First-Generation		Self-Reported HS Grades			
				Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	ES	
<b>6. During high school, how many of the following types of classes did you complete?</b>																	
a. Advanced Placement (AP) classes	hapc11num	0		420	35	261	39	158	30	187	26	230	48				
		1.5	1-2	382	32	225	34	156	30	238	34	142	29				
		3.5	3-4	56	22	131	20	138	26	194	27	75	15				
		5.5	5-6	88	7	30	5	56	11	62	9	26	5	1.6	2.2 ***	-.30	
		7.5	7-8	24	2	9	1	15	3	19	3	5	1				
		9.5	9-10	10	1	6	1	4	1	7	1	3	1				
		11.5	11 or more	4	0	3	0	1	0	1	0	3	1				
			Total	1,187	100	656	100	528	100	708	100	484	100				
b. College or university courses for credit	hdc17num	0		303	43	183	35	208	30	202	41						
		1.5	1-2	352	30	173	33	228	33	123	26						
		3.5	3-4	195	17	94	14	101	19	151	22	44	9				
		5.5	5-6	69	6	33	5	36	7	58	8	11	2	1.6	2.1 ***	-.23	
		7.5	7-8	29	2	17	3	12	2	26	4	2	0				
		9.5	9-10	14	1	3	0	11	2	13	2	1	0				
		11.5	11 or more	19	2	9	1	10	2	14	2	5	1				
			Total	1,181	100	651	100	526	100	698	100	478	100				
c. International Baccalaureate (IB)	hib11num	0		1,115	99	615	99	496	98	655	98	455	99				
		1.5	1-2	7	1	3	0	4	1	5	1	2	0				
		3.5	3-4	4	0	3	0	1	0	3	0	1	0				
		5.5	5-6	4	0	2	0	2	0	1	0	3	1	.0	1	-.04	
		7.5	7-8	0	0	0	0	0	0	0	0	0	0				
		9.5	9-10	1	0	0	0	1	0	1	0	0	0				
		11.5	11 or more	0	0	0	0	0	0	0	0	0	0				
			Total	1,131	100	623	100	504	100	665	100	461	100				
<b>7. During your last year of high school, about how many papers, reports, or other writing tasks of the following length did you complete?</b>																	
a. Up to 5 pages	hwstr1num	0	None	154	13	102	15	52	10	81	11	72	14				
		1.5	1-2	382	31	205	30	175	32	220	31	160	32				
		4	3-5	375	31	213	31	160	29	212	29	162	32				
		8	6-10	186	15	97	14	89	16	116	16	69	14	4.3	5.0 *	-.14	
		13	11-15	71	6	33	5	38	7	53	7	18	4				
		18	16-20	25	2	15	2	10	2	17	2	8	2				
		23	More than 20	36	3	17	2	19	3	21	3	15	3				
			Total	1,229	100	682	100	543	100	720	100	504	100				

- Effect size:** Effect size indicates practical significance. An effect size of .2 is often considered small, .5 moderate, and .8 large. Effect sizes for independent  $t$ -tests use Cohen's  $d$ ;  $z$ -tests use Cohen's  $h$ . Cohen's  $d$  is calculated by dividing the mean difference by the pooled standard deviation. Cohen's  $h$  is calculated by taking the difference in the proportion of students who selected the item after the proportion has been transformed using a non-linear (arcsine) transformation. See: Cohen, J. (1988). *Statistical power analysis for the behavioral sciences (2nd edition)*. New York: Psychology Press.

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions										Statistical Comparisons						
				All Students			First-Generation <sup>a</sup>		Self-Reported HS Grades				First-Generation			Self-Reported HS Grades				
				Count	%	Mean	Count	%	Yes	No	A- or higher	B+ or lower	Count	%	Count	%	Mean	Mean	ES	A- or higher
<b>6. During high school, how many of the following types of classes did you complete?</b>																				
a. Advanced Placement (AP) classes	hapcl3num	0	0	493	41			249	50	219	35	265	34	228	54					
	(Recoded version of hapcl3 created by BCSSE. Values are estimated number of AP classes.)	1.5	1-2	411	34			151	30	230	36	277	36	132	31					
		3.5	3-4	163	14			62	12	93	15	126	16	37	9					
		5.5	5-6	87	7	1.8		25	5	57	9	74	9	13	3	1.4	2.0 ***	-.29	2.1	1.2 ***
		7.5	7-8	25	2			4	1	21	3	19	2	6	1					
		9.5	9-10	11	1			4	1	6	1	9	1	2	0					
		11.5	11 or more	15	1			4	1	8	1	10	1	5	1					
		Total		1,205	100			499	100	634	100	780	100	423	100					
b. College or university courses for credit	hdc17num	0	0	559	46			232	46	290	46	308	39	249	58					
	(Recoded version of hdc17 created by BCSSE. Values are estimated number of dual credit classes.)	1.5	1-2	270	22			108	21	149	24	164	21	106	25					
		3.5	3-4	144	12	2.4		61	12	73	12	112	14	32	7					
		5.5	5-6	94	8			35	7	53	8	74	9	20	5	2.6	2.2	.10	2.9	1.4 ***
		7.5	7-8	51	4			21	4	24	4	41	5	10	2					
		9.5	9-10	27	2			8	2	18	3	22	3	5	1					
		11.5	11 or more	72	6			43	8	25	4	62	8	10	2					
		Total		1,217	100			508	100	632	100	783	100	432	100					
c. International Baccalaureate (IB)	hib17num	0	0	1,127	96			469	96	594	96	723	96	403	96					
	(Recoded version of hib17 created by BCSSE. Values are estimated number of international baccalaureate classes.)	1.5	1-2	20	2			8	2	10	2	12	2	8	2					
		3.5	3-4	8	1	0.2		3	1	4	1	4	1	3	1					
		5.5	5-6	6	1			2	0	4	1	4	1	2	0	.2	.2	-.02	.2	.1
		7.5	7-8	7	1			2	0	4	1	5	1	2	0					
		9.5	9-10	4	0			2	0	1	0	3	0	1	0					
		11.5	11 or more	5	0			1	0	2	0	5	1	0	0					
		Total		1,177	100			487	100	619	100	756	100	419	100					
<b>7. During your last year of high school, about how many papers, reports, or other writing tasks of the following length did you complete?</b>																				
a. Up to 5 pages	hwrshtrnum	0	None	80	6			30	6	41	6	46	6	34	8					
	(Recoded version of hWRshrt created by BCSSE. Values are estimated number of papers, reports, etc.)	1.5	1-2	284	23			132	26	136	21	169	21	113	26					
		4	3-5	461	37	5.8		196	38	241	37	299	37	162	37					
		8	6-10	238	19			91	18	135	21	155	19	83	19	5.4	6.0 *	-.12	6.1	5.2 **
		13	11-15	103	8			44	9	52	8	73	9	30	7					
		18	16-20	25	2			8	2	15	2	18	2	7	2					
		23	More than 20	52	4			16	3	32	5	39	5	13	3					
		Total		1,243	100			517	100	652	100	799	100	442	100					

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed)

# Frequencies and Statistical Comparisons

## University of Toledo

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions										Statistical Comparisons						
				All Students			First-Generation <sup>a</sup>		Self-Reported HS Grades				First-Generation			Self-Reported HS Grades				
				Count	%	Mean	Count	%	Yes	No	A- or higher	B+ or lower	Count	%	Count	%	Mean	Mean	ES	A- or higher
b. Between 6 and 10 pages	hwrmndnum	0	None	437	36		199	39	209	33	268	34	168	39						
		1.5	1-2	515	42		201	40	289	45	345	44	169	40						
		4	3-5	184	15		73	14	103	16	127	16	57	13						
		8	6-10	54	4	1.9	24	5	26	4	33	4	21	5	1.8	1.9	-.05	1.9	2.0	-.02
		13	11-15	15	1		5	1	8	1	7	1	8	2						
		18	16-20	3	0		1	0	2	0	2	0	1	0						
		23	More than 20	7	1		2	0	2	0	4	1	3	1						
		Total			1,215	100		505	100	639	100	786	100	427	100					
c. 11 pages or more	hwrlngnum	0	None	852	71		362	72	440	71	541	70	310	73						
		1.5	1-2	279	23		115	23	149	24	187	24	91	21						
		4	3-5	40	3		16	3	22	4	27	4	13	3						
		8	6-10	9	1	0.8	4	1	5	1	3	0	6	1	.7	.8	-.05	.8	.8	.00
		13	11-15	11	1		3	1	4	1	7	1	4	1						
		18	16-20	4	0		0	0	4	1	3	0	1	0						
		23	More than 20	3	0		1	0	0	0	2	0	1	0						
		Total			1,198	100		501	100	624	100	770	100	426	100					
<b>8. During your last year of high school, about how many hours did you spend in a typical 7-day week doing the following?</b>																				
a. Preparing for class (studying, reading, doing homework, etc.)	hacadpr13hrs	0	0	33	3		16	3	14	2	16	2	17	4						
		3	1-5	552	44		255	49	253	39	320	40	230	52						
		8	6-10	375	30		148	28	215	33	246	31	129	29						
		13	11-15	152	12		52	10	89	14	107	13	45	10						
		18	16-20	87	7	7.7	32	6	55	8	73	9	14	3	7.1	8.3 ***	-.19	8.4	6.4 ***	.35
		23	21-25	26	2		9	2	16	2	23	3	3	1						
		28	26-30	10	1		5	1	5	1	9	1	1	0						
		33	More than 30	16	1		5	1	10	2	11	1	5	1						
	Total			1,251	100		522	100	657	100	805	100	444	100						
b. Working for pay	hworkhrs	0	0	318	26		114	22	185	28	207	26	110	25						
		3	1-5	116	9		38	7	71	11	79	10	37	8						
		8	6-10	154	12		63	12	83	13	112	14	42	10						
		13	11-15	154	12		62	12	90	14	109	14	45	10						
		18	16-20	232	19	12.0	98	19	119	18	142	18	89	20	13.7	10.6 ***	.31	11.4	13.1 **	-.17
		23	21-25	139	11		69	13	61	9	84	10	55	13						
		28	26-30	66	5		36	7	26	4	36	4	30	7						
		33	More than 30	65	5		40	8	18	3	34	4	31	7						
	Total			1,244	100		520	100	653	100	803	100	439	100						

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed)

# Frequencies and Statistical Comparisons

## University of Toledo

### First-Year Students

		Frequency Distributions										Statistical Comparisons									
Item wording or description	Variable name	Values <sup>c</sup>	Response options	All Students			First-Generation <sup>a</sup>				Self-Reported HS Grades				First-Generation			Self-Reported HS Grades			
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean
c. Participating in co-curricular activities (organizations, school publications, student government, sports, etc.)	hcocurrhrs	0	0	135	11		70	14	52	8	60	8	74	17							
		3	1-5	256	21		121	23	121	18	154	19	101	23							
		8	6-10	229	18		92	18	124	19	153	19	76	17							
		13	11-15	253	20		94	18	150	23	165	21	88	20							
		18	16-20	198	16	11.3	77	15	113	17	149	19	49	11	10.5	12.1 **	-.18	12.1	9.9 ***	.26	
		23	21-25	86	7		29	6	49	7	59	7	27	6							
		28	26-30	32	3		15	3	16	2	22	3	10	2							
		33	More than 30	53	4		20	4	30	5	37	5	16	4							
		Total	1,242	100		518	100	655	100	799	100	441	100								
d. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	hsocial13hrs	0	0	7	1		5	1	1	0	5	1	2	0							
		3	1-5	340	27		151	29	167	26	199	25	139	31							
		8	6-10	380	31		161	31	201	31	261	33	119	27							
		13	11-15	228	18		86	17	127	19	147	18	81	18							
		18	16-20	162	13	10.7	65	13	93	14	112	14	50	11	10.4	11.0	-.08	10.8	10.6	.02	
		23	21-25	69	6		31	6	37	6	39	5	30	7							
		28	26-30	16	1		5	1	8	1	13	2	3	1							
		33	More than 30	40	3		16	3	20	3	22	3	18	4							
		Total	1,242	100		520	100	654	100	798	100	442	100								
<b>9. During your last year of high school, of the time you spent preparing for class in a typical 7-day week, about how much was on assigned reading?</b>																					
	htmread14	1	Very little	335	27		139	27	173	27	209	26	126	29							
		2	Some	574	46		228	44	322	49	374	47	198	45							
		3	About half	230	19	2.1	100	19	116	18	150	19	80	18	2.1	2.1	.10	2.1	2.1	.03	
		4	Most	79	6		42	8	33	5	53	7	26	6							
		5	Almost all	19	2		9	2	8	1	11	1	8	2							
		Total		1,237	100		518	100	652	100	797	100	438	100							
<b>10. During your last year of high school, about how often did you do the following?</b>																					
a. Came to class without completing readings or assignments	hunprepard	1	Never	536	43		206	40	307	47	407	51	129	29							
		2	Sometimes	564	45		257	49	272	42	313	39	251	57							
		3	Often	79	6	1.7	36	7	40	6	40	5	37	8	1.8	1.7	.07	1.6	1.9 ***	-.34	
		4	Very often	63	5		21	4	36	5	39	5	24	5							
			Total	1,242	100		520	100	655	100	799	100	441	100							

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed)

# Frequencies and Statistical Comparisons

## University of Toledo

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions										Statistical Comparisons							
				All Students			First-Generation <sup>a</sup>		No		Self-Reported HS Grades				First-Generation		Self-Reported HS Grades		ES		
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean		Mean	Mean
b. Prepared two or more drafts of a paper or assignment before turning it in	hdrafting	1	Never	218	18		95	18	109	17	138	17	80	18							
		2	Sometimes	539	43		232	45	276	42	345	43	193	44							
		3	Often	331	27	2.3	131	25	191	29	218	27	112	25	2.3	2.4	-0.06	2.3	2.3	.02	
		4	Very often	153	12		63	12	80	12	98	12	55	13							
		Total		1,241	100		521	100	656	100	799	100	440	100							
c. Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	hQRconclud	1	Never	96	8		45	9	45	7	51	6	45	10							
		2	Sometimes	435	35		208	40	209	32	266	33	169	39							
		3	Often	488	40	2.7	182	35	281	43	323	41	163	37	2.6	2.7 *	-0.15	2.7	2.5 ***	.22	
		4	Very often	216	17		86	17	116	18	156	20	60	14							
		Total		1,235	100		521	100	651	100	796	100	437	100							
d. Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	hQRproblm	1	Never	202	16		88	17	108	16	132	17	70	16							
		2	Sometimes	534	43		238	46	272	42	340	43	193	44							
		3	Often	345	28	2.4	134	26	189	29	221	28	123	28	2.3	2.4	-0.07	2.4	2.4	.02	
		4	Very often	157	13		61	12	86	13	105	13	52	12							
		Total		1,238	100		521	100	655	100	798	100	438	100							
e. Evaluated what others have concluded from numerical information	hQRrevaluat	1	Never	182	15		83	16	92	14	111	14	71	16							
		2	Sometimes	523	42		229	44	270	41	330	42	192	44							
		3	Often	403	33	2.4	156	30	226	34	263	33	139	32	2.3	2.4	-0.09	2.4	2.3 *	.12	
		4	Very often	126	10		50	10	68	10	91	11	35	8							
		Total		1,234	100		518	100	656	100	795	100	437	100							
f. Identified key information from reading assignments	hLSreading	1	Never	24	2		12	2	11	2	16	2	8	2							
		2	Sometimes	277	22		114	22	144	22	172	22	105	24							
		3	Often	575	47	3.0	241	46	306	47	363	46	210	48	3.0	3.0	-0.02	3.1	3.0	.08	
		4	Very often	360	29		152	29	196	30	245	31	115	26							
		Total		1,236	100		519	100	657	100	796	100	438	100							
g. Reviewed your notes after class	hLSnotes	1	Never	93	8		46	9	43	7	47	6	46	11							
		2	Sometimes	393	32		160	31	211	32	237	30	155	35							
		3	Often	425	34	2.8	183	35	227	35	286	36	138	32	2.8	2.8	-0.04	2.9	2.7 ***	.22	
		4	Very often	325	26		133	25	173	26	226	28	99	23							
		Total		1,236	100		522	100	654	100	796	100	438	100							

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed)

# Frequencies and Statistical Comparisons

## University of Toledo

### First-Year Students

		Frequency Distributions										Statistical Comparisons									
Item wording or description	Variable name	Values <sup>c</sup>	Response options	All Students				First-Generation <sup>a</sup>				Self-Reported HS Grades				First-Generation			Self-Reported HS Grades		
				Yes		No		A- or higher		B+ or lower		Yes	No	ES	A- or higher		B+ or lower				
				Count	%	Count	%	Count	%	Count	%	Count	%		Count	%	Mean	Mean	Mean	Mean	ES
h Summarized what you learned in class or from course materials	hLSsummary	1	Never	77	6	37	7	36	5	51	6	26	6	2.7	2.7	-.03	2.8	2.6 **	.17		
		2	Sometimes	429	35	185	36	227	35	254	32	175	40								
		3	Often	480	39	189	36	270	41	308	39	170	39								
		4	Very often	251	20	109	21	124	19	183	23	68	15								
		Total	1,237	100	520	100	657	100	796	100	439	100									
i Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	hridivers	1	Never	169	14	75	14	88	13	92	12	77	18	2.4	2.4	.02	2.5	2.4	.10		
		2	Sometimes	539	44	231	45	292	45	354	45	184	42								
		3	Often	323	26	122	24	183	28	221	28	101	23								
		4	Very often	202	16	91	18	92	14	128	16	74	17								
		Total	1,233	100	519	100	655	100	795	100	436	100									
j Examined the strengths and weaknesses of your own views on a topic or issue	hriownview	1	Never	84	7	36	7	47	7	51	6	33	8	2.7	2.7	-.02	2.7	2.7	.02		
		2	Sometimes	400	32	174	34	214	33	251	32	149	34								
		3	Often	500	41	209	40	263	40	341	43	157	36								
		4	Very often	248	20	98	19	132	20	151	19	97	22								
		Total	1,232	100	517	100	656	100	794	100	436	100									
k Tried to better understand someone else's views by imagining how an issue looks from their perspective	hriperspect	1	Never	39	3	19	4	17	3	21	3	18	4	3.0	2.9	.10	3.0	2.9	.10		
		2	Sometimes	328	27	125	24	194	30	199	25	128	29								
		3	Often	534	43	227	44	283	43	359	45	174	40								
		4	Very often	332	27	149	29	160	24	217	27	115	26								
		Total	1,233	100	520	100	654	100	796	100	435	100									
<b>11. During your last year of high school, how involved were you in the following activities at your school or elsewhere?</b>																					
a. Performing or visual arts programs (band, chorus, theater, art, etc.)	hinvars	1	Not at all	486	39	209	40	258	39	287	36	198	45	2.6	2.6	.01	2.8	2.4 ***	.24		
		2	Very little	188	15	76	15	102	16	120	15	68	16								
		3	Some	150	12	63	12	78	12	95	12	55	13								
		4	Quite a bit	110	9	43	8	61	9	74	9	35	8								
		5	Very much	302	24	131	25	156	24	220	28	82	19								
		Total	1,236	100	522	100	655	100	796	100	438	100									
b. Athletic teams (varsity, JV, club sport, etc.)	hinvathl	1	Not at all	274	22	132	25	128	19	166	21	108	25	3.4	3.6 **	-.16	3.5	3.4	.11		
		2	Very little	100	8	47	9	45	7	59	7	41	9								
		3	Some	155	13	64	12	87	13	102	13	52	12								
		4	Quite a bit	166	13	60	12	93	14	115	14	50	11								
		5	Very much	541	44	217	42	304	46	356	45	185	42								
		Total	1,236	100	520	100	657	100	798	100	436	100									

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed)

# Frequencies and Statistical Comparisons

## University of Toledo

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions										Statistical Comparisons								
				All Students			First-Generation <sup>a</sup>		Self-Reported HS Grades				First-Generation			Self-Reported HS Grades						
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES
c. Student government	hstugov	1	Not at all	789	64		348	67	407	62	472	59	316	72								
		2	Very little	176	14		75	14	92	14	122	15	54	12								
		3	Some	118	10	1.8	45	9	65	10	81	10	37	8	1.7	1.8 *	-.13	1.9	1.5 ***	.31		
		4	Quite a bit	68	6		20	4	46	7	53	7	15	3								
		5	Very much	82	7		31	6	45	7	67	8	15	3								
		Total		1,233	100		519	100	655	100	795	100	437	100								
d. Publications (student newspaper, yearbook, etc.)	hinvpubs	1	Not at all	925	75		393	75	488	75	591	74	333	76								
		2	Very little	129	10		51	10	73	11	84	11	45	10								
		3	Some	83	7	1.5	33	6	43	7	51	6	31	7	1.5	1.5	.00	1.5	1.5	.07		
		4	Quite a bit	41	3		23	4	17	3	27	3	14	3								
		5	Very much	57	5		21	4	33	5	42	5	15	3								
		Total		1,235	100		521	100	654	100	795	100	438	100								
e. Academic clubs or honor societies	hinvhon13	1	Not at all	443	36		211	40	204	31	177	22	265	60								
		2	Very little	136	11		54	10	76	12	68	9	67	15								
		3	Some	176	14	2.8	72	14	99	15	120	15	56	13	2.7	2.9 **	-.17	3.3	1.8 ***	1.10		
		4	Quite a bit	196	16		68	13	116	18	171	22	25	6								
		5	Very much	285	23		116	22	161	25	259	33	26	6								
		Total		1,236	100		521	100	656	100	795	100	439	100								
f. Vocational clubs (business, health, technology, etc.)	hinvccl	1	Not at all	771	62		331	63	405	62	491	62	279	64								
		2	Very little	135	11		50	10	81	12	97	12	38	9								
		3	Some	148	12	1.9	58	11	83	13	85	11	63	14	1.9	1.9	.03	1.9	1.8	.04		
		4	Quite a bit	68	5		30	6	32	5	43	5	24	5								
		5	Very much	115	9		53	10	54	8	81	10	34	8								
		Total		1,237	100		522	100	655	100	797	100	438	100								
g. Religious youth groups	hrelgrp	1	Not at all	768	62		361	70	366	56	459	58	308	70								
		2	Very little	129	10		50	10	75	11	96	12	32	7								
		3	Some	136	11	1.9	42	8	86	13	95	12	41	9	1.7	2.1 ***	-.28	2.0	1.7 ***	.22		
		4	Quite a bit	88	7		26	5	59	9	61	8	27	6								
		5	Very much	109	9		37	7	69	11	80	10	29	7								
		Total		1,230	100		516	100	655	100	791	100	437	100								

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed)

# Frequencies and Statistical Comparisons

## University of Toledo

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions										Statistical Comparisons							
				All Students			First-Generation <sup>a</sup>		Self-Reported HS Grades				First-Generation			Self-Reported HS Grades					
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean
h. Community service or volunteer work	hvolntr	1	Not at all	143	12		76	15	59	9	66	8	77	18							
		2	Very little	147	12		57	11	83	13	75	9	72	17							
		3	Some	340	28	3.4	154	30	171	26	216	27	123	28	3.3	3.5 **	-.17	3.6	3.0 ***	.45	
		4	Quite a bit	291	24		112	22	165	25	199	25	91	21							
		5	Very much	304	25		115	22	172	26	235	30	69	16							
		Total		1,225	100		514	100	650	100	791	100	432	100							
<b>12. During your <i>last year</i> of high school, to what extent did your course challenge you to do your best work?</b>																					
	hchallenge	1	Not at all	11	1		5	1	4	1	5	1	6	1							
		2		42	3		14	3	24	4	21	3	21	5							
		3		121	10		53	10	63	10	56	7	64	15							
		4		284	23	4.8	130	25	142	22	171	21	113	26	4.9	4.8	.03	5.0	4.5 ***	.35	
		5		415	34		158	30	236	36	274	34	141	32							
		6		236	19		94	18	129	20	178	22	58	13							
		7	Very much	128	10		67	13	57	9	92	12	36	8							
		Total		1,237	100		521	100	655	100	797	100	439	100							
<b>13. During the coming school year, about how many hours do you expect to spend in a typical 7-day week doing the following?</b>																					
a. Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)	cacadpr13hrs  <i>(Recoded version of cacadpr13 created by BCSSE. Values are estimated number of hours)</i>	0	0	4	0		2	0	2	0	1	0	3	1							
		3	1-5	73	6		31	6	40	6	37	5	36	8							
		8	6-10	214	18		105	20	100	15	126	16	87	21							
		13	11-15	303	25		131	25	164	25	197	25	105	25							
		18	16-20	318	26	16.0	126	24	183	28	218	28	100	24	15.7	16.2	-.07	16.5	15.1 **	.19	
		23	21-25	167	14		71	14	93	14	117	15	50	12							
		28	26-30	83	7		31	6	49	7	57	7	26	6							
		33	More than 30	49	4		24	5	23	4	32	4	17	4							
		Total		1,211	100		521	100	654	100	785	100	424	100							
b. Working for pay on- or off-campus	cworkhrs  <i>(Recoded version of cworkhrs created by BCSSE. Values are estimated number of hours)</i>	0	0	322	27		107	21	205	31	213	27	109	26							
		3	1-5	136	11		49	9	83	13	93	12	42	10							
		8	6-10	213	18		100	19	109	17	129	17	84	20							
		13	11-15	235	20		104	20	128	20	168	22	66	16							
		18	16-20	188	16	9.5	86	17	93	14	110	14	78	18	11.0	8.2 ***	.34	9.2	9.9	-.08	
		23	21-25	62	5		43	8	19	3	36	5	26	6							
		28	26-30	26	2		19	4	6	1	13	2	13	3							
		33	More than 30	21	2		11	2	9	1	16	2	5	1							
		Total		1,203	100		519	100	652	100	778	100	423	100							

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed)

# Frequencies and Statistical Comparisons

## University of Toledo

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions										Statistical Comparisons							
				All Students			First-Generation <sup>a</sup>		Self-Reported HS Grades				First-Generation			Self-Reported HS Grades					
				Count	%	Mean	Count	%	Yes	No	A- or higher	B+ or lower	Count	%	Count	%	Mean	Mean	ES	A- or higher	B+ or lower
c. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	ccocurrhrs  (Recorded version of ccocurrhrs created by BCSSE. Values are estimated number of hours)	0	0	151	13			75	15	72	11	90	12	61	14						
		3	1-5	386	32			179	35	199	30	238	31	147	35						
		8	6-10	364	30			142	27	209	32	238	31	126	30						
		13	11-15	165	14			69	13	94	14	121	16	44	10						
		18	16-20	82	7	7.6		32	6	46	7	57	7	24	6	7.1	8.0 *	-.13	7.9	7.1 *	.13
		23	21-25	25	2			10	2	15	2	17	2	8	2						
		28	26-30	12	1			3	1	9	1	6	1	6	1						
		33	More than 30	17	1			7	1	9	1	12	2	5	1						
	Total			1,202	100			517	100	653	100	779	100	421	100						
d. Relaxing and socializing (time with friends, video games, TV or videos, keeping up with friends online, etc.)	csocial13hrs  (Recorded version of csocial13hrs created by BCSSE. Values are estimated number of hours)	0	0	11	1			4	1	6	1	7	1	3	1						
		3	1-5	309	26			152	29	151	23	177	23	132	31						
		8	6-10	444	37			195	38	236	36	306	39	137	32						
		13	11-15	276	23			108	21	158	24	184	24	92	22						
		18	16-20	100	8	9.6		31	6	66	10	67	9	33	8	9.1	10.0 **	-.15	9.7	9.3	.07
		23	21-25	35	3			15	3	20	3	22	3	13	3						
		28	26-30	20	2			6	1	13	2	13	2	7	2						
		33	More than 30	10	1			6	1	4	1	5	1	5	1						
	Total			1,205	100			517	100	654	100	781	100	422	100						
<b>14. During the coming school year, of the time you expect to spend preparing for class in a typical 7-day week, about how much will be on assigned reading?</b>																					
ctmread17		1	Very little	42	3			14	3	27	4	26	3	16	4						
		2	Some	292	24			117	22	168	26	188	24	103	24						
		3	About half	457	38	3.1		195	37	249	38	298	38	158	37	3.2	3.0 **	.15	3.1	3.1	.01
		4	Most	323	27			146	28	169	26	210	27	113	27						
		5	Almost all	91	8			49	9	40	6	59	8	32	8						
			Total			1,205	100			521	100	653	100	781	100	422	100				
<b>15. During the coming school year, about how often do you expect to do the following?</b>																					
a. Ask another student to help you understand course material	cCLaskhlp	1	Never	15	1			6	1	8	1	11	1	3	1						
		2	Sometimes	416	35			190	36	221	34	273	35	143	34						
		3	Often	512	43	2.8		224	43	273	42	335	43	176	42	2.8	2.9	-.08	2.8	2.9	-.08
		4	Very often	259	22			102	20	152	23	158	20	101	24						
			Total			1,202	100			522	100	654	100	777	100	423	100				

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed)

# Frequencies and Statistical Comparisons

## University of Toledo

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions										Statistical Comparisons								
				All Students			First-Generation <sup>a</sup>				Self-Reported HS Grades				First-Generation			Self-Reported HS Grades				
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES
b. Explain course material to one or more students	cCLxplain	1	Never	30	3		16	3	12	2	14	2	15	4								
		2	Sometimes	523	44		233	45	284	44	330	43	193	46								
		3	Often	480	40	2.7	206	40	264	40	319	41	160	38	2.6	2.7	-.07	2.7	2.6		.12	
		4	Very often	165	14		66	13	92	14	112	14	53	13								
		Total		1,198	100		521	100	652	100	775	100	421	100								
c. Prepare for exams by discussing or working through course material with other students	cCLstudy	1	Never	27	2		12	2	14	2	16	2	10	2								
		2	Sometimes	268	22		125	24	138	21	164	21	103	25								
		3	Often	528	44	3.0	223	43	296	45	344	44	184	44	3.0	3.1	-.05	3.1	3.0		.10	
		4	Very often	373	31		160	31	204	31	252	32	121	29								
		Total		1,196	100		520	100	652	100	776	100	418	100								
d. Work with other students on course projects or assignments	cCLproject	1	Never	13	1		9	2	3	0	6	1	6	1								
		2	Sometimes	296	25		132	25	161	25	190	24	105	25								
		3	Often	560	47	3.0	240	46	308	47	358	46	202	48	3.0	3.0	-.06	3.0	3.0		.07	
		4	Very often	331	28		140	27	182	28	224	29	107	25								
		Total		1,200	100		521	100	654	100	778	100	420	100								
e. Talk about career plans with a faculty member	cSFcareer	1	Never	37	3		17	3	18	3	25	3	11	3								
		2	Sometimes	522	44		202	39	311	48	348	45	174	42								
		3	Often	429	36	2.7	193	37	228	35	261	34	167	40	2.8	2.6 **	.18	2.7	2.7		-.03	
		4	Very often	210	18		110	21	95	15	143	18	67	16								
		Total		1,198	100		522	100	652	100	777	100	419	100								
f. Work with a faculty member on activities other than coursework (committees, student groups, etc.)	cSFothrwrk	1	Never	147	12		73	14	71	11	87	11	59	14								
		2	Sometimes	594	50		249	48	333	51	411	53	182	43								
		3	Often	328	27	2.4	137	26	185	28	195	25	133	32	2.4	2.4	-.02	2.3	2.4		-.06	
		4	Very often	128	11		61	12	64	10	81	10	47	11								
		Total		1,197	100		520	100	653	100	774	100	421	100								
g. Discuss your academic performance with a faculty member	cSFprform	1	Never	55	5		22	4	31	5	34	4	21	5								
		2	Sometimes	508	42		225	43	276	42	351	45	156	37								
		3	Often	449	38	2.6	181	35	257	39	266	34	182	43	2.7	2.6	.04	2.6	2.7		-.07	
		4	Very often	184	15		90	17	90	14	123	16	61	15								
		Total		1,196	100		518	100	654	100	774	100	420	100								
h. Discuss course topics, ideas, or concepts with a faculty member outside of class	cSFdiscuss	1	Never	87	7		41	8	45	7	54	7	33	8								
		2	Sometimes	596	50		260	50	323	50	400	52	194	46								
		3	Often	357	30	2.5	137	26	213	33	219	28	138	33	2.5	2.5	.02	2.5	2.5		-.05	
		4	Very often	152	13		79	15	71	11	98	13	54	13								
		Total		1,192	100		517	100	652	100	771	100	419	100								

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed)

# Frequencies and Statistical Comparisons

## University of Toledo

### First-Year Students

				Frequency Distributions										Statistical Comparisons								
				All Students				First-Generation <sup>a</sup>		Self-Reported HS Grades				First-Generation		Self-Reported HS Grades						
Item wording or description	Variable name	Values <sup>c</sup>	Response options	Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES		
i Prepare two or more drafts of a paper or assignment before turning it in	cdrafting	1	Never	71	6		29	6	39	6	44	6	27	6								
		2	Sometimes	389	33		176	34	207	32	259	33	129	31								
		3	Often	469	39	2.8	195	38	268	41	298	39	170	41	2.8	2.8	.00	2.8	2.8	.00		
		4	Very often	263	22		119	23	138	21	173	22	90	22								
		Total		1,192	100		519	100	652	100	774	100	416	100								
j Come to class without completing readings or assignments	cunprepard	1	Never	834	70		348	67	471	72	563	73	271	65								
		2	Sometimes	247	21		115	22	127	19	146	19	100	24								
		3	Often	65	5	1.4	30	6	33	5	33	4	31	7	1.5	1.4 *	.12	1.4	1.5 *	-.14		
		4	Very often	49	4		26	5	22	3	32	4	17	4								
		Total		1,195	100		519	100	653	100	774	100	419	100								
<b>16. During the coming school year, about how often do you expect to have discussions with people from the following groups?</b>																						
a. People of a race or ethnicity other than your own	cDVrace	1	Never	23	2		10	2	12	2	13	2	10	2								
		2	Sometimes	193	16		83	16	108	17	114	15	77	18								
		3	Often	489	41	3.2	209	40	273	42	324	42	165	39	3.2	3.2	.03	3.2	3.2	.09		
		4	Very often	489	41		218	42	261	40	323	42	166	40								
		Total		1,194	100		520	100	654	100	774	100	418	100								
b. People from an economic background other than your own	cDVeconomy	1	Never	25	2		10	2	14	2	14	2	11	3								
		2	Sometimes	173	14		84	16	87	13	105	14	68	16								
		3	Often	529	44	3.2	216	42	305	47	342	44	185	44	3.2	3.2	.00	3.2	3.2	.10		
		4	Very often	467	39		210	40	247	38	312	40	155	37								
		Total		1,194	100		520	100	653	100	773	100	419	100								
c. People with religious beliefs other than your own	cDVreligion	1	Never	37	3		18	3	18	3	18	2	19	5								
		2	Sometimes	195	16		90	17	103	16	119	15	75	18								
		3	Often	499	42	3.2	204	39	286	44	323	42	175	42	3.2	3.2	-.01	3.2	3.1 *	.15		
		4	Very often	462	39		208	40	245	38	313	40	149	36								
		Total		1,193	100		520	100	652	100	773	100	418	100								
d. People with political views other than your own	cDVpolitical	1	Never	30	3		14	3	15	2	15	2	15	4								
		2	Sometimes	232	19		115	22	113	17	130	17	100	24								
		3	Often	495	41	3.1	196	38	290	44	328	42	167	40	3.1	3.1	-.05	3.2	3.0 ***	.20		
		4	Very often	438	37		196	38	235	36	300	39	138	33								
		Total		1,195	100		521	100	653	100	773	100	420	100								

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed)

# Frequencies and Statistical Comparisons

## University of Toledo

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions										Statistical Comparisons							
				All Students			First-Generation <sup>a</sup>		Self-Reported HS Grades				First-Generation		Self-Reported HS Grades						
				Count	%	Mean	Count	%	Yes	No	A- or higher	B+ or lower	Count	%	Count	%	Mean	Mean	ES	A- or higher	B+ or lower
<b>17. During the coming school year, how certain are you that you will do the following?</b>																					
a. Study when there are other interesting things to do	cotherint	1	Not at all certain	11	1		4	1	7	1	7	1	4	1							
		2		53	4		24	5	28	4	22	3	30	7							
		3		221	19		97	19	119	18	139	18	82	20							
		4		426	36	4.3	173	33	246	38	269	35	157	37	4.3	4.2	.07	4.3	4.1 ***	.21	
		5		292	24		128	25	160	25	199	26	92	22							
		6	Very certain	189	16		95	18	93	14	135	18	54	13							
		Total		1,192	100		521	100	653	100	771	100	419	100							
b. Find additional information for course assignments when you don't understand the material	cfindinfo	1	Not at all certain	6	1		3	1	3	0	3	0	3	1							
		2		20	2		11	2	8	1	7	1	12	3							
		3		132	11		48	9	80	12	81	11	50	12							
		4		309	26	4.7	143	28	161	25	185	24	124	30	4.8	4.7	.04	4.8	4.6 **	.18	
		5		357	30		144	28	209	32	248	32	109	26							
		6	Very certain	360	30		170	33	188	29	243	32	117	28							
		Total		1,184	100		519	100	649	100	767	100	415	100							
c. Participate regularly in course discussions, even when you don't feel like it	ccourdis	1	Not at all certain	10	1		4	1	6	1	7	1	3	1							
		2		89	7		40	8	47	7	55	7	34	8							
		3		250	21		110	21	135	21	151	20	97	23							
		4		396	33	4.1	161	31	232	36	264	34	132	32	4.2	4.1	.07	4.2	4.1	.07	
		5		267	22		112	22	152	23	174	23	93	22							
		6	Very certain	175	15		93	18	79	12	118	15	57	14							
		Total		1,187	100		520	100	651	100	769	100	416	100							
d. Ask instructors for help when you struggle with course assignments	caskinst	1	Not at all certain	4	0		4	1	0	0	3	0	1	0							
		2		48	4		18	3	28	4	25	3	23	6							
		3		123	10		53	10	69	11	76	10	45	11							
		4		304	26	4.7	119	23	179	27	203	26	101	24	4.8	4.6 *	.13	4.7	4.7	.02	
		5		347	29		137	26	206	31	237	31	110	26							
		6	Very certain	363	31		188	36	172	26	226	29	137	33							
		Total		1,189	100		519	100	654	100	770	100	417	100							

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed)

# Frequencies and Statistical Comparisons

## University of Toledo

### First-Year Students

		Frequency Distributions												Statistical Comparisons								
Item wording or description	Variable name	Values <sup>c</sup>	Response options	All Students			First-Generation <sup>a</sup>				Self-Reported HS Grades				First-Generation			Self-Reported HS Grades				
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES
e. Finish something you have started when you encounter challenges	cfinish	1	Not at all certain	2	0		2	0	0	0	1	0	1	0								
		2		17	1		6	1	10	2	4	1	12	3								
		3		98	8		48	9	49	7	55	7	42	10								
		4		301	25	4.8	130	25	167	26	200	26	101	24	4.8	4.9	-.02	4.9	4.8 *	.14		
		5		399	34		167	32	227	35	260	34	139	33								
		6	Very certain	372	31		166	32	201	31	250	32	122	29								
		Total		1,189	100		519	100	654	100	770	100	417	100								
f. Stay positive, even when you do poorly on a test or assignment	cstaypos	1	Not at all certain	22	2		9	2	13	2	12	2	10	2								
		2		83	7		29	6	51	8	54	7	29	7								
		3		190	16		90	17	94	14	123	16	66	16								
		4		358	30	4.3	147	28	209	32	247	32	110	26	4.4	4.3	.09	4.3	4.4	-.07		
		5		277	23		113	22	163	25	184	24	93	22								
		6	Very certain	258	22		131	25	123	19	150	19	108	26								
		Total		1,188	100		519	100	653	100	770	100	416	100								
<b>18. During the coming school year, how difficult do you expect the following to be?</b>																						
a. Learning course material	clearnma	1	Not at all difficult	24	2		13	3	11	2	13	2	11	3								
		2		77	6		33	6	42	6	51	7	26	6								
		3		259	22		116	22	138	21	161	21	96	23								
		4		465	39	4.0	218	42	243	37	291	38	174	42	3.9	4.0	-.11	4.0	3.9	.12		
		5		265	22		99	19	163	25	188	24	77	19								
		6	Very difficult	95	8		38	7	57	9	65	8	30	7								
		Total		1,185	100		517	100	654	100	769	100	414	100								
b. Managing your time	cmantime	1	Not at all difficult	37	3		18	3	19	3	25	3	11	3								
		2		100	8		56	11	41	6	70	9	30	7								
		3		240	20		102	20	135	21	146	19	93	22								
		4		342	29	4.1	144	28	193	30	225	29	117	28	4.0	4.2	-.11	4.1	4.1	-.02		
		5		256	22		114	22	141	22	167	22	89	21								
		6	Very difficult	211	18		84	16	124	19	136	18	75	18								
		Total		1,186	100		518	100	653	100	769	100	415	100								

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed)

# Frequencies and Statistical Comparisons

## University of Toledo

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions										Statistical Comparisons							
				All Students			First-Generation <sup>a</sup>		Self-Reported HS Grades				First-Generation			Self-Reported HS Grades					
				Count	%	Mean	Count	%	Yes	No	A- or higher	B+ or lower	Count	%	Count	%	Mean	Mean	ES	A- or higher	B+ or lower
c. Paying college or university expenses	cpaycoll	1	Not at all difficult	133	11		38	7	93	14	84	11	49	12							
		2		164	14		56	11	101	15	112	15	51	12							
		3		186	16		75	15	109	17	122	16	63	15							
		4		228	19	3.9	106	21	119	18	154	20	74	18	4.2	3.6 ***	.34	3.8	3.9	-.06	
		5		212	18		94	18	118	18	134	17	78	19							
		6	Very difficult	262	22		148	29	113	17	161	21	101	24							
		Total		1,185	100		517	100	653	100	767	100	416	100							
d. Getting help with school work	cgethelp	1	Not at all difficult	165	14		79	15	82	13	101	13	64	15							
		2		333	28		130	25	198	30	229	30	104	25							
		3		320	27		152	29	165	25	206	27	112	27							
		4		258	22	2.9	109	21	147	22	160	21	98	24	2.9	2.9	-.01	2.9	2.9	-.02	
		5		85	7		34	7	51	8	57	7	28	7							
		6	Very difficult	25	2		14	3	11	2	16	2	9	2							
		Total		1,186	100		518	100	654	100	769	100	415	100							
e. Making new friends	cmakefr	1	Not at all difficult	222	19		97	19	122	19	131	17	91	22							
		2		243	21		100	19	139	21	151	20	91	22							
		3		272	23		109	21	158	24	184	24	87	21							
		4		220	19	3.1	97	19	121	19	155	20	65	16	3.2	3.0	.09	3.1	3.0	.11	
		5		137	12		67	13	69	11	89	12	48	12							
		6	Very difficult	90	8		47	9	43	7	59	8	31	8							
		Total		1,184	100		517	100	652	100	769	100	413	100							
f. Interacting with faculty	cintfac	1	Not at all difficult	186	16		99	19	85	13	105	14	80	19							
		2		285	24		107	21	174	27	177	23	108	26							
		3		336	28		145	28	184	28	235	31	100	24							
		4		235	20	2.9	95	18	140	21	155	20	80	19	2.9	2.9	-.01	3.0	2.8 *	.13	
		5		107	9		53	10	53	8	76	10	31	7							
		6	Very difficult	35	3		19	4	16	2	20	3	15	4							
		Total		1,184	100		518	100	652	100	768	100	414	100							

**19. During the coming school year, about how often do you expect to seek help with coursework from the following sources?**

a. Faculty members	cseekfac	1	Never	12	1		5	1	7	1	9	1	3	1							
		2	Sometimes	510	43		221	43	283	43	334	43	176	43							
		3	Often	490	41	2.7	202	39	284	43	313	41	176	43	2.7	2.7	.08	2.7	2.7	-.01	
		4	Very often	170	14		90	17	79	12	112	15	57	14							
			Total	1,182	100		518	100	653	100	768	100	412	100							

# Frequencies and Statistical Comparisons

## University of Toledo

### First-Year Students

		Frequency Distributions												Statistical Comparisons							
Item wording or description	Variable name	Values <sup>c</sup>	Response options	All Students				First-Generation <sup>a</sup>				Self-Reported HS Grades				First-Generation			Self-Reported HS Grades		
				Yes		No		A- or higher		B+ or lower		Yes	No	ES	A- or higher		B+ or lower				
				Count	%	Count	%	Count	%	Count	%	Count	%		Count	%	Mean	Mean	Mean	Mean	ES
b. Academic advisors	cseekaa	1	Never	60	5	32	6	28	4	42	5	18	4	2.7	2.5 *	.13	2.6	2.6	-.08		
		2	Sometimes	527	45	205	40	316	48	357	47	170	41								
		3	Often	426	36	189	37	233	36	254	33	170	41								
		4	Very often	167	14	89	17	76	12	112	15	55	13								
		Total	1,180	100	515	100	653	100	765	100	413	100									
c. Learning support services (tutoring, writing center, success coaching, etc.)	cseekls	1	Never	44	4	21	4	23	4	35	5	9	2	2.9	2.9	.00	2.8	2.9	-.08		
		2	Sometimes	368	31	160	31	203	31	239	31	129	31								
		3	Often	485	41	208	40	273	42	314	41	170	41								
		4	Very often	283	24	127	25	154	24	179	23	103	25								
		Total	1,180	100	516	100	653	100	767	100	411	100									
d. Friends or other students	cseekfrnd	1	Never	10	1	4	1	6	1	4	1	6	1	3.0	3.1 *	-.14	3.1	3.0 **	.17		
		2	Sometimes	239	20	122	24	115	18	145	19	94	23								
		3	Often	558	47	243	47	312	48	358	47	198	48								
		4	Very often	373	32	149	29	219	34	261	34	112	27								
		Total	1,180	100	518	100	652	100	768	100	410	100									
e. Family members	cseekfam	1	Never	267	23	136	26	129	20	187	24	80	20	2.2	2.3	-.11	2.2	2.3	-.08		
		2	Sometimes	468	40	197	38	265	41	300	39	168	41								
		3	Often	301	26	121	23	179	27	188	24	112	27								
		4	Very often	144	12	63	12	80	12	93	12	50	12								
		Total	1,180	100	517	100	653	100	768	100	410	100									
f. Other persons or offices	cseekoth	1	Never	152	13	60	12	91	14	110	14	42	10	2.3	2.2	.08	2.2	2.3 *	-.12		
		2	Sometimes	684	58	303	59	374	57	449	59	234	57								
		3	Often	265	22	111	22	152	23	154	20	110	27								
		4	Very often	78	7	42	8	36	6	53	7	25	6								
		Total	1,179	100	516	100	653	100	766	100	411	100									
<b>20. How prepared are you to do the following in your academic work at this institution?</b>																					
a. Write clearly and effectively	cSGwrite	1	Not at all prepared	9	1	7	1	2	0	2	0	7	2	4.6	4.6	.04	4.7	4.4 ***	.27		
		2		28	2	12	2	15	2	9	1	17	4								
		3		154	13	63	12	90	14	92	12	62	15								
		4		333	28	136	26	195	30	208	27	125	30								
		5		386	33	173	34	211	32	263	34	123	30								
		6	Very prepared	267	23	124	24	140	21	190	25	77	19								
		Total	1,177	100	515	100	653	100	764	100	411	100									

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed)

# Frequencies and Statistical Comparisons

## University of Toledo

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions										Statistical Comparisons						
				All Students			First-Generation <sup>a</sup>		Self-Reported HS Grades				First-Generation		Self-Reported HS Grades					
				Count	%	Mean	Count	%	Yes	No	A- or higher	B+ or lower	Count	%	Count	%	Mean	Mean	ES	A- or higher
b. Speak clearly and effectively	cSGspeak	1	Not at all prepared	7	1		2	0	5	1	3	0	4	1						
		2		44	4		23	4	20	3	24	3	18	4						
		3		162	14		66	13	95	15	101	13	61	15						
		4		356	30	4.5	145	28	209	32	222	29	134	33	4.6	4.5	.09	4.6	4.4 *	.15
		5		345	29		151	29	193	30	233	30	112	27						
		6	Very prepared	265	22		131	25	130	20	182	24	83	20						
		Total		1,179	100		518	100	652	100	765	100	412	100						
c. Think critically and analytically	cSGthink	1	Not at all prepared	5	0		4	1	1	0	0	0	4	1						
		2		21	2		10	2	10	2	14	2	7	2						
		3		136	12		68	13	68	10	76	10	59	14						
		4		353	30	4.6	148	29	203	31	214	28	139	34	4.6	4.7	-.04	4.7	4.5 ***	.23
		5		375	32		153	30	217	33	259	34	116	28						
		6	Very prepared	289	25		135	26	153	23	203	27	86	21						
		Total		1,179	100		518	100	652	100	766	100	411	100						
d. Analyze numerical and statistical information	cSGanalyze	1	Not at all prepared	15	1		9	2	5	1	7	1	8	2						
		2		46	4		23	4	22	3	25	3	20	5						
		3		203	17		107	21	95	15	103	13	100	24						
		4		366	31	4.4	145	28	220	34	241	31	124	30	4.3	4.4 *	-.12	4.5	4.1 ***	.31
		5		321	27		132	26	185	28	225	29	96	23						
		6	Very prepared	228	19		101	20	126	19	165	22	63	15						
		Total		1,179	100		517	100	653	100	766	100	411	100						
e. Work effectively with others	cSGothers	1	Not at all prepared	4	0		2	0	1	0	0	0	4	1						
		2		16	1		6	1	10	2	5	1	10	2						
		3		75	6		33	6	40	6	42	5	32	8						
		4		270	23	4.9	120	23	148	23	168	22	102	25	4.9	4.9	.04	5.0	4.8 ***	.24
		5		437	37		178	34	258	40	288	38	149	36						
		6	Very prepared	375	32		177	34	195	30	263	34	112	27						
		Total		1,177	100		516	100	652	100	766	100	409	100						
f. Use computing and information technology	cgncompt13	1	Not at all prepared	9	1		4	1	4	1	3	0	6	1						
		2		48	4		19	4	29	4	35	5	13	3						
		3		161	14		78	15	82	13	104	14	56	14						
		4		335	28	4.5	134	26	198	30	218	28	116	28	4.6	4.5	.06	4.5	4.5	-.01
		5		358	30		148	29	208	32	234	31	124	30						
		6	Very prepared	267	23		134	26	132	20	171	22	96	23						
		Total		1,178	100		517	100	653	100	765	100	411	100						

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed)

# Frequencies and Statistical Comparisons

## University of Toledo

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions										Statistical Comparisons						
				All Students			First-Generation <sup>a</sup>		Self-Reported HS Grades				First-Generation		Self-Reported HS Grades					
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES
g. Learn effectively on your own	cgningq	1	Not at all prepared	12	1		7	1	4	1	5	1	7	2						
		2		36	3		14	3	22	3	18	2	17	4						
		3		143	12		65	13	77	12	79	10	64	16						
		4		325	28	4.6	135	26	188	29	211	28	113	27	4.6	4.6	.04	4.7	4.4 ***	.23
		5		380	32		161	31	217	33	251	33	129	31						
		6	Very prepared	285	24		136	26	146	22	203	26	82	20						
		Total		1,181	100		518	100	654	100	767	100	412	100						
<b>21. How important is it to you that your institution provides the following?</b>																				
a. A challenging academic experience	cacadexp	1	Not important	16	1		11	2	5	1	8	1	8	2						
		2		43	4		22	4	20	3	20	3	22	5						
		3		198	17		85	16	111	17	109	14	88	21						
		4		452	38	4.3	201	39	250	38	302	39	150	37	4.2	4.3	-.09	4.4	4.1 ***	.25
		5		290	25		125	24	162	25	198	26	92	22						
		6	Very important	178	15		73	14	104	16	128	17	50	12						
		Total		1,177	100		517	100	652	100	765	100	410	100						
b. Support to help students succeed academically	cSEacad	1	Not important	2	0		2	0	0	0	1	0	1	0						
		2		8	1		4	1	3	0	1	0	6	1						
		3		54	5		23	4	31	5	31	4	22	5						
		4		188	16	5.3	82	16	102	16	113	15	75	18	5.2	5.3	-.05	5.3	5.1 **	.19
		5		303	26		141	27	162	25	193	25	110	27						
		6	Very important	624	53		267	51	354	54	426	56	198	48						
		Total		1,179	100		519	100	652	100	765	100	412	100						
c. Opportunities to interact with students from different backgrounds (social, racial/ethnic, religious, etc.)	cSEdiv	1	Not important	27	2		10	2	17	3	19	2	8	2						
		2		37	3		15	3	21	3	23	3	14	3						
		3		132	11		54	10	76	12	82	11	49	12						
		4		283	24	4.7	122	24	159	24	188	25	94	23	4.7	4.7	.06	4.7	4.7	.01
		5		293	25		133	26	159	24	187	24	106	26						
		6	Very important	405	34		182	35	221	34	266	35	139	34						
		Total		1,177	100		516	100	653	100	765	100	410	100						

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed)

# Frequencies and Statistical Comparisons

## University of Toledo

### First-Year Students

Item wording or description	Variable name	Values <sup>c</sup>	Response options	Frequency Distributions										Statistical Comparisons								
				All Students			First-Generation <sup>a</sup>		Self-Reported HS Grades				First-Generation			Self-Reported HS Grades						
				Count	%	Mean	Count	%	Yes	No	A- or higher	B+ or lower	Count	%	Count	%	Mean	Mean	ES	A- or higher	B+ or lower	ES
d. Help managing your non-academic responsibilities (work, family, etc.)	cSEnac	1	Not important	27	2		16	3	11	2	15	2	12	3								
		2		47	4		18	3	27	4	29	4	18	4								
		3		184	16		71	14	110	17	121	16	61	15								
		4		292	25	4.5	130	25	162	25	182	24	110	27	4.6	4.5	.03	4.6	4.5	.08		
		5		279	24		125	24	153	23	183	24	96	23								
		6	Very important	351	30		158	31	191	29	237	31	114	28								
		Total		1,180	100		518	100	654	100	767	100	411	100								
e. Opportunities to be involved socially	cSEsoc	1	Not important	10	1		7	1	3	0	7	1	3	1								
		2		45	4		20	4	24	4	25	3	19	5								
		3		132	11		59	11	72	11	73	10	59	14								
		4		264	22	4.7	119	23	143	22	162	21	101	25	4.7	4.8	-.06	4.8	4.6 **	.19		
		5		326	28		141	27	185	28	218	29	108	26								
		6	Very important	401	34		171	33	226	35	279	37	122	30								
		Total		1,178	100		517	100	653	100	764	100	412	100								
f. Opportunities to attend campus activities and events	cSEact	1	Not important	15	1		9	2	6	1	8	1	7	2								
		2		50	4		24	5	25	4	27	4	23	6								
		3		104	9		51	10	52	8	55	7	48	12								
		4		260	22	4.8	112	22	146	22	161	21	98	24	4.7	4.8	-.07	4.9	4.6 ***	.24		
		5		322	27		134	26	187	29	210	28	112	27								
		6	Very important	423	36		185	36	235	36	300	39	123	30								
		Total		1,174	100		515	100	651	100	761	100	411	100								
g. Learning support services (tutoring, writing center, success coaching, etc.)	cSEserv	1	Not important	6	1		5	1	1	0	4	1	2	0								
		2		24	2		12	2	11	2	10	1	13	3								
		3		98	8		38	7	59	9	67	9	31	8								
		4		230	20	5.0	101	19	128	20	130	17	99	24	5.0	5.0	-.02	5.1	4.9 *	.15		
		5		264	22		118	23	143	22	172	22	92	22								
		6	Very important	557	47		244	47	312	48	382	50	175	42								
		Total		1,179	100		518	100	654	100	765	100	412	100								

\*p<.05, \*\*p<.01, \*\*\*p<.001 (2-tailed)

---

**BCSSE 2019**  
**First-Year Student Scale Means**  
University of Toledo

---

BCSSE Scales provide a useful summary of the detailed information contained in your students' BCSSE responses. By combining responses to related BCSSE questions, each scale offers valuable information about a distinct aspect of student engagement.

- Student status:** Class level as reported by your students.
- Scale description and variable name:** A brief description of the BCSSE scale along with the variable name for easy reference to your datafile and codebook. See Scale Descriptions for more information.
- Mean:** The unweighted scale mean is reported overall for the institution, as well as by first-generation status and high school grades.
- Statistical comparisons:** Items with mean differences that are larger than would be expected by chance are noted with asterisks referring to three significance levels (\* $p < .05$ , \*\* $p < .01$ , \*\*\* $p < .001$ ). Significance levels indicate the probability that an observed difference is due to chance. Statistical significance does not guarantee the result is substantive or important. Large sample sizes tend to generate more statistically significant results even though the magnitude of mean differences may be inconsequential. Consult effect sizes (see #5) to judge the practical meaning of differences. Unless otherwise noted, statistical comparisons are two-tailed independent t-tests
- Effect size:** Effect size indicates practical significance. An effect size of .2 is often considered small, .5 moderate, and .8 large. Effect sizes for independent  $t$ -tests use Cohen's  $d$ . Cohen's  $d$  is calculated by dividing the mean difference by the pooled standard deviation. See: Cohen, J. (1988). *Statistical power analysis for the behavioral sciences (2nd edition)*. New York: Psychology Press.

### Scale Mean Scores and Selected Student Comparisons

BCSSEville State University

First-Year Students ← 1

BCSSE Scales	Variable <sup>a</sup>	All Students			First-Generation <sup>a</sup>			Self-Reported High School Grades		
		Mean	SD	N	Yes	No	ES	A- or higher	B+ or lower	ES
					Mean	Mean		Mean	Mean	
<b>Quantitative Reasoning</b>										
<i>High school engagement with analysis and numerical information</i>	HS_QR	26.3	14.1	1221	25.4	27.7 **	-.16	26.6	26.2	.02
<b>Learning Strategies</b>										
<i>Use of effective learning strategies in high school</i>	HS_LS	36.6	12.7	1220	36.4	36.8	-.04	37.5	35.3 **	.17
<b>Collaborative Learning</b>										
<i>Expectation to interact and collaborate with peers</i>	EXP_CL	34.9	10.7	1232	34.3	35.1	-.07	35.5	33.6 **	.17
<b>Student-Faculty Interaction</b>										
<i>Expectation to interact and engage with faculty</i>	EXP_SFI	30.4	11.5	1234	29.9	30.9	-.09	30.4	30.0	.05
<b>Expected Discussions with Diverse Others</b>										
<i>Expectation to engage in discussions with diverse others</i>	EXP_DD	42.1	13.9	1233	40.8	43.0 **	-.15	43.1	40.1 ***	.21
<b>Expected Academic Perseverance</b>										
<i>Student certainty that they will persist in the face of academic adversity</i>	EXP_PER	40.6	9.8	1233	40.8	41.1	-.03	41.8	39.8 ***	.20
<b>Expected Academic Difficulty</b>										
<i>Expected academic difficulty during the coming year</i>	EXP_DIF	26.3	10.4	1233	26.9	25.0 **	.18	25.9	26.3	-.04
<b>Perceived Academic Preparation</b>										
<i>Student perception of their academic preparation</i>	PER_PREP	41.9	10.2	1233	41.6	42.9 *	-.13	43.4	40.6 ***	.27
<b>Importance of Campus Environment</b>										
<i>Student-rated importance that the institution provides a challenging and supportive environment</i>	IMP_CAMP	41.3	10.7	1233	41.1	41.7	-.05	42.2	40.1 ***	.20

← 2

← 3

← 4

← 5

### BCSSE Scales

BCSSE Scales scores were calculated by converting the responses for each item to a 0-60 range. A mean scale score was then calculated for each student. Below is a brief description of each scale with the component BCSSE items in parentheses.

Scale name	Description	Scale items
<i>Quantitative Reasoning</i> ( <i>HS_QR</i> )	High school engagement with analysis and numerical information (First-year students only)	hQRconclud, hQRproblm, hQRrevaluat
<i>Learning Strategies</i> ( <i>HS_LS</i> )	Use of effective learning strategies in high school. (First-year students only)	hLSreading, hLSnotes, hLSsummary
<i>Learning Strategies</i> ( <i>TR_LS</i> )	Use of effective learning strategies at prior institution (Transfer students only)	tLSreading, tLSnotes, tLSsummary
<i>Collaborative Learning</i> ( <i>EXP_CL</i> )	Expectation to interact and collaborate with peers	cCLaskhlp, cCLxplain, cCLstudy, cCLprojet
<i>Student-Faculty Interaction</i> ( <i>EXP_SFI</i> )	Expectation to interact and engage with faculty	cSFcareer, cSFothrwrk, cSFprform, cSFdiscuss
<i>Discussions with Diverse Others</i> ( <i>EXP_DD</i> )	Expectation to engage in discussions with diverse others	cDVrace, cDVeconomc, cDVreligion, cDVpolitical
<i>Academic Perseverance</i> ( <i>EXP_PER</i> )	Student certainty that they will persist in the face of academic adversity	cotherint, cfindinfo, ccourdis, caskinst, cfinish, cstaypos
<i>Academic Difficulty</i> ( <i>EXP_DIF</i> )	Expected academic difficulty during the coming year	clearnma, cmantime, cgethelp, cintfac
<i>Perceived Academic Preparation</i> ( <i>PER_PREP</i> )	Student perception of their academic preparation	cSGwrite, cSGspeak, cSGthink, cSGanalyze, cSGothers, cgncompt13, cgninq
<i>Importance of Campus Environment</i> ( <i>IMP_CAMP</i> )	Student-rated importance that the institution provides a challenging and supportive environment	cacadexp, cSEacad, cSEdiv, cSEnacad, cSEsoc, cSEact, cSEserv

- a. First generation is defined as no parent or guardian having graduated with a 4-year college degree.
- b. Please refer to BCSSE Scale Descriptions for items included in the scale.
- c. 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.