

2022

BEGINNING UNIVERSITY SURVEY OF STUDENT ENGAGEMENT



University of the
Free State



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UNIVERSITY OF THE
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UFS
CENTRE FOR TEACHING
AND LEARNING (CTL)

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Administration Details





Guide to Your Report

Students enter your campus with a variety of backgrounds and experiences that relate to their academic engagement and success. The purpose of BUSSE is to provide your campus with valuable and timely information that will allow you to positively impact the first-year experiences of your students.

The *BUSSE Institutional Report 2022* contains three sections that highlight important characteristics related to your incoming first-year class. The first section of this report describes the background characteristics of your first-year students who responded to the survey. The second section contains the frequency distributions for all questions on the survey. Overall results for your institution are presented, as well as results by gender and first-generation status. The third section contains the overall institutional means for nine BUSSE Scales. These scales provide important information regarding high school engagement with quantitative reasoning and learning strategies, as well as expected first-year academic engagement and academic performance. Similar to the frequency distributions, the mean differences are also reported by gender and first-generation status. In total, this report provides your institution with the best estimates of your incoming first-year student academic characteristics.

Student Comparisons

As described above, your *BUSSE Institutional Report 2022* contains results by gender and first-generation status. The results are presented by student subgroup to better understand the diversity of student experiences within each campus. This allows you to effectively target important academic resources to the students who are in the most need. Though this report only examines group differences by gender and first-generation status, there are many other important subgroups to consider depending on the unique circumstances of your campus.



	Respondents	
	Count	%
Number of Surveys Completed	2790	100%

Student Characteristics

Enrollment Status

Full time contact	2641	96%
Full time distance	57	2%
Part time contact	59	2%
Part time distance	6	0%

Gender

Male	828	30%
Female	1899	69%
Another gender identity	10	0%
I prefer not to respond	29	1%

Race/Ethnicity

African	2556	92%
Coloured	92	3%
Indian	13	0%
Asian	0	0%
White	99	4%
Other	9	0%

High School Graduation Year

Before 2017	132	5%
2017	66	2%
2018	99	4%
2019	241	9%
2020	780	28%
2021	1460	53%

First-generation Status

Yes	2334	84%
No	440	16%

International Student

Yes	121	4%
No	2651	96%



Respondent Characteristics





Respondent Characteristics About This Report

The *Respondent Characteristics* presents overall student demographic information, as well as by gender and first-generation status. The display below highlights important details in the report to keep in mind when interpreting your results.

1. **Item numbers:** Numbering corresponds to the codebook included in your Institutional Report.

2. **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.

3. **Response options:** Response options are worded as they appear on the instrument (except where abbreviations are used for formatting purposes).

4. **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 Characteristics BUSSEville University

Item number	Item wording or description	Variable name	Response options	All Students		Gender		First-Generation					
				Count	%	Males	Females	Yes		No			
								Count	%	Count	%	Count	%
25	This institution was your:	Instchoice	First choice	1,004	44%	348	44%	655	45%	521	41%	482	48%
			Second choice	775	34%	277	35%	494	34%	428	34%	345	35%
			Third choice	291	13%	91	12%	198	14%	180	14%	110	11%
			Fourth choice	82	4%	34	4%	48	3%	64	5%	18	2%
			Fifth choice or lower	107	5%	36	5%	71	5%	67	5%	40	4%
			Total	2,259	100%	786	100%	1,466	100%	1,260	100%	995	100%
26	Your programme of study was your:	Progchoice	First choice	1,340	59%	490	62%	846	58%	763	60%	574	58%
			Second choice	700	31%	233	30%	465	32%	370	29%	328	33%
			Third choice	224	10%	66	8%	157	11%	129	10%	95	10%
			Total	2,264	100%	789	100%	1,468	100%	1,262	100%	997	100%
27	Indicate your gender.	csex	Male	790	35%					496	39%	292	29%
			Female	1,469	65%					763	61%	704	71%
			Total	2,259	100%					1,259	100%	996	100%



Respondent Characteristics University of the Free State

Item wording or description	Variable name	Response options	All Students		Gender				First-Generation ^a			
					Males		Females		Yes		No	
			Count	%	Count	%	Count	%	Count	%	Count	%
1 Please indicate the year you matriculated from high school.												
	matriculate	Before 2017	132	5%	42	5%	88	5%	115	5%	17	4%
		2017	66	2%	23	3%	41	2%	59	3%	7	2%
		2018	99	4%	29	4%	68	4%	84	4%	14	3%
		2019	241	9%	76	9%	160	8%	210	9%	30	7%
		2020	780	28%	231	28%	535	28%	678	29%	99	23%
		2021	1,460	53%	425	51%	997	53%	1,178	51%	271	62%
		Total	2,778	100%	826	100%	1,889	100%	2,324	100%	438	100%
2 [If #1 response is not most recent year] Since matriculating from high school, which of the following have you done? (Mark all that apply.)												
	tattend	Attended another post-school institution	251	19%	76	19%	169	19%	201	18%	50	30%
	twork_ft	Worked full-time	144	11%	58	14%	81	9%	123	11%	20	12%
	twork_pt	Worked part-time	406	31%	137	34%	260	29%	349	30%	54	32%
	thome	Stayed at home without working or studying	479	36%	154	38%	317	36%	432	38%	47	28%
	tvolunteer	Volunteered	229	17%	79	20%	147	16%	200	17%	29	17%
	ttravel	Travelled	103	8%	39	10%	63	7%	86	8%	17	10%
	tmatric	Took time to better matric results	247	19%	72	18%	171	19%	183	16%	62	37%
	tsinceoth	Other	96	7%	31	8%	65	7%	83	7%	13	8%
3 [If #2 is answered "Attended another post-school institution"] Since finishing high school, which of the following type(s) of institution(s) have you attended other than the one you are attending now? (Mark all that apply.)												
	tattend_pub	Another public higher education institution	93	37%	32	42%	58	35%	71	36%	22	44%
	tattend_priv	Another private higher education institution	31	12%	11	14%	20	12%	19	10%	12	24%
	tattend_tvct	TVET college (technical or vocational college)	95	38%	20	26%	73	43%	83	42%	12	24%
	tattend_col	Private training college	20	8%	8	11%	12	7%	17	9%	3	6%
	tattend_other	Other	22	9%	7	9%	14	8%	17	9%	5	10%



Respondent Characteristics University of the Free State

Item wording or description	Variable name	Response options	All Students		Gender				First-Generation ^a				
			Count	%	Males		Females		Yes		No		
					Count	%	Count	%	Count	%	Count	%	
4 From which type of high school did you matriculate? (Mark only one.)													
	htype	Public	2,558	92%	768	93%	1,735	92%	2,178	94%	367	84%	
		Private (independent schools, religious schools, homeschools, etc.)	200	7%	52	6%	141	7%	132	6%	66	15%	
		Other	23	1%	5	1%	17	1%	17	1%	5	1%	
		Total	2,781	100%	825	100%	1,893	100%	2,327	100%	438	100%	
5 What were most of your high school marks? (Mark only one.)													
	hgrades	0-29%	1	0%	0	0%	1	0%	1	0%	0	0%	
		30-39%	4	0%	2	0%	2	0%	4	0%	0	0%	
		40-49%	69	2%	19	2%	50	3%	64	3%	5	1%	
		50-59%	379	14%	122	15%	249	13%	320	14%	54	12%	
		60-69%	909	33%	278	34%	609	32%	768	33%	138	31%	
		70-79%	978	35%	290	35%	668	35%	818	35%	155	35%	
		80-89%	370	13%	94	11%	265	14%	289	12%	79	18%	
		90-100%	76	3%	23	3%	52	3%	67	3%	9	2%	
		Total	2,786	100%	828	100%	1,896	100%	2,331	100%	440	100%	
21 Which of the following sources are you using to pay your educational expenses (tuition fees, books, room and board, etc.)?													
a	Parent/guardian's money	cparfam	Using	806	30%	205	26%	582	32%	537	24%	266	61%
			Not using	1,657	62%	511	64%	1,116	61%	1,522	68%	131	30%
			Not sure	219	8%	83	10%	130	7%	181	8%	37	9%
			Total	2,682	100%	799	100%	1,828	100%	2,240	100%	434	100%
b	My own money	cself	Using	408	15%	143	18%	255	14%	316	14%	91	22%
			Not using	2,086	79%	597	76%	1,449	81%	1,780	80%	300	72%
			Not sure	142	5%	50	6%	89	5%	117	5%	25	6%
			Total	2,636	100%	790	100%	1,793	100%	2,213	100%	416	100%



Respondent Characteristics University of the Free State

Item wording or description	Variable name	Response options	All Students		Gender				First-Generation ^a			
					Males		Females		Yes		No	
			Count	%	Count	%	Count	%	Count	%	Count	%
c Private sponsor/s (e.g. family contributors)	finprispon	Using	209	8%	79	10%	123	7%	178	8%	31	7%
		Not using	2,243	85%	649	82%	1,554	87%	1,891	86%	345	83%
		Not sure	181	7%	63	8%	112	6%	141	6%	40	10%
		Total	2,633	100%	791	100%	1,789	100%	2,210	100%	416	100%
d Employer	finemployer	Using	30	1%	12	2%	18	1%	21	1%	9	2%
		Not using	2,483	95%	734	93%	1,698	95%	2,084	95%	392	94%
		Not sure	108	4%	40	5%	66	4%	92	4%	16	4%
		Total	2,621	100%	786	100%	1,782	100%	2,197	100%	417	100%
e Non-governmental bursary (e.g. institutional, merit, private company)	finnongov	Using	226	9%	58	7%	160	9%	178	8%	46	11%
		Not using	2,227	85%	669	85%	1,520	85%	1,885	85%	336	81%
		Not sure	178	7%	63	8%	107	6%	145	7%	33	8%
		Total	2,631	100%	790	100%	1,787	100%	2,208	100%	415	100%
f Governmental bursary (excluding NSFAS)	fingovbur	Using	363	14%	113	14%	241	13%	323	14%	40	10%
		Not using	2,126	80%	614	77%	1,472	81%	1,776	79%	343	83%
		Not sure	170	6%	67	8%	98	5%	138	6%	32	8%
		Total	2,659	100%	794	100%	1,811	100%	2,237	100%	415	100%
g NSFAS	finnsfas	Using	2,112	77%	652	80%	1,418	76%	1,946	84%	161	38%
		Not using	430	16%	108	13%	313	17%	221	10%	208	49%
		Not sure	189	7%	54	7%	130	7%	136	6%	52	12%
		Total	2,731	100%	814	100%	1,861	100%	2,303	100%	421	100%
h Loan (including institutional, banks, or private companies)	cstudlo	Using	98	4%	28	4%	67	4%	65	3%	33	8%
		Not using	2,398	91%	701	90%	1,648	92%	2,046	93%	345	83%
		Not sure	135	5%	53	7%	81	5%	95	4%	40	10%
		Total	2,631	100%	782	100%	1,796	100%	2,206	100%	418	100%



Respondent Characteristics University of the Free State

Item wording or description	Variable name	Response options	All Students		Gender				First-Generation ^a			
					Males		Females		Yes		No	
			Count	%	Count	%	Count	%	Count	%	Count	%
22 What do you expect most of your marks to be at this university during the coming year? (Mark only one.)												
	cgrades	0-29%	0	0%	0	0%	0	0%	0	0%	0	0%
		30-39%	0	0%	0	0%	0	0%	0	0%	0	0%
		40-49%	3	0%	0	0%	2	0%	3	0%	0	0%
		50-59%	85	3%	21	3%	61	3%	73	3%	11	3%
		60-69%	396	14%	158	19%	231	12%	335	14%	59	14%
		70-79%	1,202	43%	332	40%	836	44%	991	43%	208	48%
		80-89%	840	30%	238	29%	593	31%	699	30%	138	32%
		90-100%	240	9%	74	9%	163	9%	221	10%	19	4%
		Total	2,766	100%	823	100%	1,886	100%	2,322	100%	435	100%
23 Do you expect to graduate from this university?												
	cintgrad	Yes	2,598	95%	782	95%	1,766	95%	2,182	95%	407	94%
		No	12	0%	6	1%	5	0%	10	0%	2	0%
		Uncertain	128	5%	31	4%	92	5%	105	5%	23	5%
		Total	2,738	100%	819	100%	1,863	100%	2,297	100%	432	100%
24 Thinking about this current academic term, how are you registered?												
	cenrlmen	Full time contact	2,641	96%	773	94%	1,815	96%	2,211	95%	421	97%
		Full time distance	57	2%	24	3%	32	2%	52	2%	5	1%
		Part time contact	59	2%	22	3%	35	2%	50	2%	9	2%
		Part time distance	6	0%	1	0%	5	0%	6	0%	0	0%
		Total	2,763	100%	820	100%	1,887	100%	2,319	100%	435	100%

Item wording or description	Variable name	Response options	Gender				First-Generation ^a					
			All Students		Males		Females		Yes		No	
			Count	%	Count	%	Count	%	Count	%	Count	%
25 How many of your close friends will attend this university during the coming year?												
	cfriends	None	1,193	43%	334	41%	833	44%	985	43%	202	46%
		1	452	16%	132	16%	311	17%	380	16%	71	16%
		2	401	15%	119	15%	273	14%	339	15%	61	14%
		3	238	9%	77	9%	155	8%	208	9%	30	7%
		4 or more	472	17%	154	19%	311	17%	397	17%	74	17%
		Total	2,756	100%	816	100%	1,883	100%	2,309	100%	438	100%
26 This institution was your:												
	Instchoice	First choice	1,754	63%	567	69%	1,161	61%	1,515	65%	235	54%
		Second choice	692	25%	186	23%	489	26%	555	24%	135	31%
		Third choice	214	8%	49	6%	159	8%	175	8%	38	9%
		Fourth choice	58	2%	10	1%	46	2%	41	2%	16	4%
		Fifth choice or lower	52	2%	13	2%	35	2%	39	2%	13	3%
		Total	2,770	100%	825	100%	1,890	100%	2,325	100%	437	100%
27 Your programme of study was your:												
	Progchoice	First choice	1,321	48%	419	51%	871	46%	1,122	48%	195	45%
		Second choice	1,136	41%	328	40%	791	42%	943	41%	189	43%
		Third choice	315	11%	78	9%	229	12%	261	11%	53	12%
		Total	2,772	100%	825	100%	1,891	100%	2,326	100%	437	100%
28 What is your gender identity?												
	csex	Male	828	30%					721	31%	102	23%
		Female	1,899	69%					1,568	68%	324	74%
		Another gender identity	10	0%					6	0%	4	1%
		I prefer not to respond	29	1%					23	1%	6	1%
		Total	2,766	100%					2,318	100%	436	100%

Respondent Characteristics University of the Free State

Item wording or description	Variable name	Response options	Gender				First-Generation ^a					
			All Students		Males		Females		Yes		No	
			Count	%	Count	%	Count	%	Count	%	Count	%
29 Are you an international student?												
	cinterna	Yes	121	4%	28	3%	91	5%	100	4%	21	5%
		No	2,651	96%	796	97%	1,799	95%	2,225	96%	417	95%
		Total	2,772	100%	824	100%	1,890	100%	2,325	100%	438	100%
30 Indicate your race. (Mark only one.)												
	crace	African	2,556	92%	774	93%	1,730	92%	2,190	94%	358	82%
		Coloured	92	3%	23	3%	65	3%	74	3%	18	4%
		Indian	13	0%	4	0%	8	0%	8	0%	5	1%
		Asian	0	0%	0	0%	0	0%	0	0%	0	0%
		White	99	4%	23	3%	76	4%	48	2%	51	12%
		Other	9	0%	4	0%	4	0%	3	0%	4	1%
		Total	2,769	100%	828	100%	1,883	100%	2,323	100%	436	100%
31 First Generational Status												
(Neither parent holds a B-degree. Recoded from bfammembergradN to bfammembergradO)	FGbac	Not first generation	440	16%	102	12%	324	17%				
		First generation	2,334	84%	721	88%	1,568	83%				
		Total	2,774	100%	823	100%	1,892	100%				
32 Where do you currently attend most of your classes/sessions/discussions?												
	res21	On campus	1,798	65%	576	70%	1,185	63%	1,506	65%	282	64%
		Some on campus and some off campus	880	32%	223	27%	639	34%	741	32%	138	32%
		Off campus	99	4%	26	3%	69	4%	81	3%	18	4%
		Total	2,777	100%	825	100%	1,893	100%	2,328	100%	438	100%



Respondent Characteristics University of the Free State

Item wording or description	Variable name	Response options	All Students		Gender				First-Generation ^a			
					Males		Females		Yes		No	
			Count	%	Count	%	Count	%	Count	%	Count	%
33 Please select the category that best represents your major field of study. (Mark only one.)												
	cfaculty	Business, Commerce, and Management	660	24%	228	28%	418	23%	526	23%	133	31%
		Education	746	27%	223	27%	507	27%	677	30%	65	15%
		Human and Social Sciences	894	33%	213	26%	664	36%	753	33%	139	32%
		Science, Engineering, and Technology	433	16%	154	19%	267	14%	334	15%	97	22%
		Total	2,733	100%	818	100%	1,856	100%	2,290	100%	434	100%
34 Age												
	age_recode	18 years	399	14%	104	13%	282	15%	324	14%	72	17%
		19 years	1,028	37%	257	31%	748	40%	812	35%	215	49%
		20 years	586	21%	186	23%	392	21%	506	22%	76	17%
		21 years	317	11%	116	14%	195	10%	289	12%	26	6%
		22 years	168	6%	66	8%	96	5%	147	6%	20	5%
		23 years	76	3%	23	3%	52	3%	69	3%	7	2%
		24 years	50	2%	21	3%	29	2%	44	2%	6	1%
		25 and older	138	5%	49	6%	88	5%	124	5%	14	3%
		Total	2,762	100%	822	100%	1,882	100%	2,315	100%	436	100%

Item wording or description	Variable name	Response options	All Students		Gender				First-Generation ^a			
			Count	%	Males		Females		Yes		No	
					Count	%	Count	%	Count	%	Count	%
35 Besides English, what other language(s) do you use when learning with peers or during tutorials, etc.? (Mark all that apply.)												
	ctutlang1	Afrikaans	384	14%	94	11%	281	15%	255	11%	129	30%
	ctutlang2	IsiNdebele	73	3%	19	2%	53	3%	63	3%	10	2%
	ctutlang3	IsiXhosa	898	32%	267	32%	614	32%	765	33%	131	30%
	ctutlang4	IsiZulu	1,536	55%	450	55%	1,051	55%	1,332	57%	202	46%
	ctutlang5	North Sotho	296	11%	110	13%	179	9%	259	11%	37	8%
	ctutlang6	Sesotho	1,343	48%	399	48%	912	48%	1,146	49%	194	44%
	ctutlang7	Setswana	714	26%	231	28%	468	25%	613	26%	98	22%
	ctutlang8	SiSwati	267	10%	90	11%	173	9%	234	10%	31	7%
	ctutlang9	Tshivenda	96	3%	34	4%	61	3%	78	3%	17	4%
	ctutlang10	Xitsonga	151	5%	45	5%	105	6%	130	6%	21	5%
	ctutlang11	None	136	5%	41	5%	91	5%	100	4%	34	8%
	ctutlang12	Other	89	3%	21	3%	64	3%	76	3%	12	3%
36 Have you been diagnosed with any disability or impairment?												
	disability	Yes	82	3%	21	3%	57	3%	58	3%	24	5%
		No	2,572	93%	756	92%	1,766	94%	2,161	93%	401	92%
		I prefer not to respond	107	4%	42	5%	61	3%	94	4%	12	3%
		Total	2,761	100%	819	100%	1,884	100%	2,313	100%	437	100%
37 [If #36 is answered "Yes"] Which of the following has been diagnosed? (Mark all that apply.)												
	dis_sense	A sensory impairment (vision or hearing)	57	76%	15	75%	40	77%	39	72%	18	86%
	dis_mobility	A mobility impairment	3	4%	1	5%	1	2%	2	4%	1	5%
	dis_learning	A learning disability (e.g. ADHD, dyslexia)	6	8%	2	10%	4	8%	5	9%	1	5%
	dis_mental	A mental health disorder	9	12%	1	5%	8	15%	7	13%	2	10%
	dis_other	A disability or impairment not listed above	14	19%	5	25%	9	17%	12	22%	2	10%

Respondent Characteristics University of the Free State

Item wording or description	Variable name	Response options	All Students		Gender				First-Generation ^a			
					Males		Females		Yes		No	
			Count	%	Count	%	Count	%	Count	%	Count	%
38 Indicate the province you were living in the year you completed matric. (Mark only one.)												
	province	Eastern Cape	269	10%	80	10%	183	10%	217	9%	50	11%
		Free State	700	25%	224	27%	461	24%	578	25%	121	28%
		Gauteng	614	22%	145	18%	457	24%	516	22%	95	22%
		KwaZulu-Natal	512	18%	147	18%	351	19%	445	19%	66	15%
		Limpopo	188	7%	66	8%	117	6%	156	7%	30	7%
		Mpumalanga	209	8%	69	8%	139	7%	183	8%	23	5%
		Northern Cape	77	3%	23	3%	53	3%	62	3%	15	3%
		North West	152	5%	54	7%	91	5%	128	5%	23	5%
		Western Cape	59	2%	17	2%	41	2%	46	2%	13	3%
		Was not living in South Africa	6	0%	3	0%	3	0%	2	0%	4	1%
		Total	2,786	100%	828	100%	1,896	100%	2,333	100%	440	100%
39 What is your home language or mother tongue? (Mark all that apply.)												
	homelang1	Afrikaans	179	6%	46	6%	131	7%	116	5%	63	15%
	homelang2	English	221	8%	61	7%	155	8%	141	6%	79	18%
	homelang3	IsiNdebele	36	1%	4	0%	31	2%	31	1%	5	1%
	homelang4	IsiXhosa	472	17%	136	17%	327	17%	394	17%	76	18%
	homelang5	IsiZulu	729	26%	196	24%	513	27%	632	27%	94	22%
	homelang6	North Sotho	192	7%	58	7%	131	7%	165	7%	26	6%
	homelang7	Sesotho	661	24%	217	26%	430	23%	564	24%	95	22%
	homelang8	Setswana	307	11%	96	12%	201	11%	257	11%	49	11%
	homelang9	SiSwati	141	5%	51	6%	90	5%	122	5%	17	4%
	homelang10	Tshivenda	54	2%	23	3%	30	2%	42	2%	11	3%
	homelang11	Xitsonga	119	4%	40	5%	78	4%	101	4%	18	4%
	homelang12	Other	60	2%	15	2%	45	2%	45	2%	15	3%

Respondent Characteristics University of the Free State

Item wording or description	Variable name	Response options	Gender				First-Generation ^a					
			All Students		Males		Females		Yes		No	
			Count	%	Count	%	Count	%	Count	%	Count	%
40 On which campus are you enrolled?												
	campus	Bloemfontein Campus	1,932	70%	559	68%	1,328	70%	1,597	69%	325	74%
		Qwaqwa Campus	400	14%	135	16%	257	14%	358	15%	41	9%
		South Campus	447	16%	130	16%	307	16%	371	16%	73	17%
		Total	2,779	100%	824	100%	1,892	100%	2,326	100%	439	100%
41 Please select the faculty that you are registered in.												
	faculty	Economic and Management Sciences	552	20%	189	23%	355	19%	447	19%	105	24%
		Education	705	25%	217	26%	473	25%	638	27%	62	14%
		Health Sciences	100	4%	15	2%	83	4%	63	3%	36	8%
		Law	235	8%	62	8%	167	9%	189	8%	43	10%
		Natural and Agricultural Sciences	418	15%	157	19%	247	13%	322	14%	95	22%
		The Humanities	712	26%	175	21%	523	28%	614	26%	95	22%
		Theology and Religion	59	2%	10	1%	46	2%	56	2%	3	1%
		Total	2,781	100%	825	100%	1,894	100%	2,329	100%	439	100%
42 When did you start studying at this institution?												
	startstud	2022	2,751	99%	814	99%	1,875	99%	2,304	99%	434	99%
		2021	24	1%	7	1%	16	1%	19	1%	4	1%
		2020	0	0%	0	0%	0	0%	0	0%	0	0%
		2019	0	0%	0	0%	0	0%	0	0%	0	0%
		Before 2019	2	0%	0	0%	2	0%	2	0%	0	0%
		Total	2,777	100%	821	100%	1,893	100%	2,325	100%	438	100%



Respondent Characteristics University of the Free State

Item wording or description	Variable name	Response options	All Students		Gender				First-Generation ^a			
					Males		Females		Yes		No	
			Count	%	Count	%	Count	%	Count	%	Count	%
43 What is the highest level of education you plan to complete?												
	chighdeg	Certificate	120	4%	26	3%	92	5%	103	4%	16	4%
		Diploma	16	1%	6	1%	9	0%	16	1%	0	0%
		Bachelor's degree (B.A., B.Sc., B.Tech., etc.)	974	35%	312	38%	643	34%	847	36%	121	28%
		Honours degree	384	14%	115	14%	257	14%	317	14%	65	15%
		Master's degree (M.A., M.Sc., M.Tech., etc.)	539	19%	158	19%	366	19%	426	18%	113	26%
		Doctoral degree (Ph.D., M.D., D.Tech., etc.)	724	26%	202	25%	509	27%	597	26%	123	28%
		Not enrolled for Degree purposes	22	1%	5	1%	17	1%	20	1%	2	0%
		Total	2,779	100%	824	100%	1,893	100%	2,326	100%	440	100%



Frequencies and Mean Comparisons





BUSSE Frequencies and Mean 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 of students at your institution.

The display below highlights important details in the report to keep in mind when interpreting your results.



Frequencies and Mean Comparisons

BUSSEville University

Item wording or description	Variable Name	Values ^c	Response Options	Frequency Distributions								Mean Comparisons											
				All Students			Gender		First-generation ^a				Gender		First-generation								
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES	
8. During your last year of high school, about how often did you do each of the following?																							
a Attended class without having completed readings or assignments	hclunpre	1	Never	557	42			162	38	384	44	394	45	163	37								
		2	Sometimes	672	51			231	54	430	49	435	49	237	53								
		3	Often	53	4	4.0		20	5	33	4	28	3	25	6	3.9	4.0	**	-.04	4.0	3.9	**	.04
		4	Very often	43	3			12	3	31	4	24	3	19	4								
		Total		1325	100			425	100	878	100	881	100	444	100								

- Item numbers:** Numbering corresponds to the survey facsimile and codebook.
- 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
- 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 #7) to judge the practical meaning of differences. Statistical comparisons are two-tailed
- 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.



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

Variable name ^b	Values ^c	Response Options	Frequency Distributions										Mean Comparisons									
			All Students			Gender				First-generation ^a				Gender			First-generation					
			Count	%	Mean	Males		Females		Yes		No		Mean	Mean	ES	Yes		No	ES		
						Count	%	Count	%	Count	%	Count	%				Count	Mean	Mean			
6. During your last year of high school, about how many papers, reports, or other written tasks of the following lengths did you complete?																						
a	Up to 5 pages	hwrite5	1	None	106	4%		36	5%	67	4%	76	4%	29	7%							
			2	1-2	278	11%		78	10%	195	11%	225	10%	50	12%							
			3	3-5	900	35%		238	31%	636	36%	759	35%	134	32%							
			4	6-10	534	21%	3.8	176	23%	344	19%	443	20%	90	22%	3.9	3.8	.06	3.8	3.7	.09	
			5	11-15	276	11%		87	11%	186	11%	240	11%	34	8%							
			6	More than 15	507	19%		159	21%	340	19%	424	20%	81	19%							
			Total		2,601	100%		774	100%	1,768	100%	2,167	100%	418	100%							
b	Between 6 and 10 pages	hwrite5m	1	None	336	14%		94	13%	237	15%	255	13%	78	20%							
			2	1-2	348	14%		104	14%	234	14%	270	13%	78	20%							
			3	3-5	492	20%		156	21%	325	20%	419	21%	71	18%							
			4	6-10	773	32%	3.4	234	32%	522	32%	673	33%	96	24%	3.4	3.4	.03	3.4	3.1	***	.20
			5	11-15	224	9%		74	10%	145	9%	192	10%	31	8%							
			6	More than 15	242	10%		72	10%	167	10%	200	10%	41	10%							
			Total		2,415	100%		734	100%	1,630	100%	2,009	100%	395	100%							
c	11 pages or more	hwrite11	1	None	715	30%		215	30%	485	30%	565	28%	146	38%							
			2	1-2	326	14%		109	15%	211	13%	259	13%	65	17%							
			3	3-5	270	11%		88	12%	176	11%	232	12%	38	10%							
			4	6-10	360	15%	3.2	107	15%	241	15%	315	16%	44	11%	3.1	3.2	-.05	3.2	2.8	***	.22
			5	11-15	382	16%		103	14%	276	17%	336	17%	42	11%							
			6	More than 15	338	14%		99	14%	230	14%	284	14%	52	13%							
			Total		2,391	100%		721	100%	1,619	100%	1,991	100%	387	100%							

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

			Frequency Distributions										Mean Comparisons								
Variable name ^b	Values ^c	Response Options	All Students			Gender				First-generation ^a				Gender			First-generation				
			Count	%	Mean	Males		Females		Yes		No		Males	Females	ES	Yes	No	ES		
						Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	Mean	Mean	Mean	ES
7. During your last year of high school, about how many hours did you spend in a typical 7-day week doing each of the following?																					
a Preparing for class (studying, reading, writing, doing homework, rehearsing, and other academic activities)	hacadpr	1 0	8	0%	3.4	3	0%	4	0%	5	0%	3	1%	3.4	3.4	.00	3.4	3.4	.00		
		2 1-5	723	26%		201	24%	510	27%	607	26%	114	26%								
		3 6-10	819	30%		263	32%	534	28%	676	29%	134	31%								
		4 11-15	468	17%		140	17%	317	17%	405	17%	61	14%								
		5 More than 15	757	27%		217	26%	523	28%	627	27%	127	29%								
		Total	2,775	100%		824	100%	1,888	100%	2,320	100%	439	100%								
b Working for pay	hwork	1 0	1,657	63%	1.6	454	58%	1,169	65%	1,346	61%	300	72%	1.7	1.6	**	.11	1.6	1.5	***	.21
		2 1-5	565	21%		194	25%	356	20%	492	22%	71	17%								
		3 6-10	286	11%		96	12%	183	10%	252	11%	33	8%								
		4 11-15	59	2%		20	3%	38	2%	53	2%	6	1%								
		5 More than 15	71	3%		22	3%	47	3%	62	3%	9	2%								
		Total	2,638	100%		786	100%	1,793	100%	2,205	100%	419	100%								
c Participating in co-curricular (extracurricular) activities (organisations, school publications, student government, sports, etc.)	hcocurr	1 0	744	27%	2.0	180	22%	548	30%	627	28%	112	26%	2.1	1.9	***	.24	2.0	2.1	-.09	
		2 1-5	1,454	53%		437	54%	989	53%	1,230	54%	217	50%								
		3 6-10	379	14%		123	15%	243	13%	303	13%	74	17%								
		4 11-15	87	3%		35	4%	49	3%	67	3%	19	4%								
		5 More than 15	54	2%		28	3%	26	1%	46	2%	8	2%								
		Total	2,718	100%		803	100%	1,855	100%	2,273	100%	430	100%								
d Relaxing and socialising (time with friends, video games, watching TV or movies, sport, mobile and online chatting, etc.)	hsocial	1 0	136	5%	2.4	43	5%	89	5%	128	6%	7	2%	2.4	2.3	*	.11	2.3	2.5	**	-.17
		2 1-5	1,858	68%		524	65%	1,294	69%	1,567	69%	280	65%								
		3 6-10	486	18%		144	18%	331	18%	382	17%	103	24%								
		4 11-15	148	5%		55	7%	90	5%	122	5%	24	6%								
		5 More than 15	105	4%		40	5%	62	3%	85	4%	19	4%								
		Total	2,733	100%		806	100%	1,866	100%	2,284	100%	433	100%								

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

Variable name ^b	Values ^c	Response Options	Frequency Distributions										Mean Comparisons									
			All Students			Gender				First-generation ^a				Gender			First-generation					
						Males		Females		Yes		No		Males	Females	ES	Yes	No	ES			
			Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES	
8. During your last year of high school, in a typical 7-day week, how many hours did you spend reading?																						
hread	1	0	27	1%	3.2	13	2%	14	1%	17	1%	9	2%	3.2	3.2	-.03	3.2	3.0	***	.18		
	2	1-5	901	33%		258	32%	615	33%	732	32%	165	38%									
	3	6-10	853	31%		260	32%	578	31%	714	31%	134	31%									
	4	11-15	422	15%		130	16%	281	15%	366	16%	52	12%									
	5	More than 15	566	20%		157	19%	400	21%	488	21%	76	17%									
	Total		2,769	100%		818	100%	1,888	100%	2,317	100%	436	100%									
9. During your last year of high school, which of the following types of writing have you done? (Mark all that apply.)																						
<i>(Means indicate the percentage who chose each option.)</i>																						
Essays	hwriteess	1	True	2,713	97%	799	97%	1,853	98%	2,262	97%	435	99%	97%	98%	-.04	97%	99%	***	-.21		
		0	False	72	3%	97%	25	3%	45	2%	68	3%	4								1%	
		Total		2,785	100%	824	100%	1,898	100%	2,330	100%	439	100%									
Assignments/ projects	hwriteass	1	True	2,518	90%	736	89%	1,726	91%	2,103	90%	404	92%	89%	91%	-.06	90%	92%		-.07		
		0	False	267	10%	90%	88	11%	172	9%	227	10%	35								8%	
		Total		2,785	100%	824	100%	1,898	100%	2,330	100%	439	100%									
Reports	hwriterep	1	True	735	26%	230	28%	486	26%	595	26%	139	32%	28%	26%	.05	26%	32%	*	-.13		
		0	False	2,050	74%	26%	594	72%	1,412	74%	1,735	74%	300								68%	
		Total		2,785	100%	824	100%	1,898	100%	2,330	100%	439	100%									
Reflective writing	hwriteref	1	True	1,019	37%	265	32%	734	39%	793	34%	222	51%	32%	39%	***	-.13	34%	51%	***	-.33	
		0	False	1,766	63%	37%	559	68%	1,164	61%	1,537	66%	217									49%
		Total		2,785	100%	824	100%	1,898	100%	2,330	100%	439	100%									
Case studies	hwritecas	1	True	1,618	58%	494	60%	1,093	58%	1,374	59%	238	54%	60%	58%	.05	59%	54%		.10		
		0	False	1,167	42%	58%	330	40%	805	42%	956	41%	201								46%	
		Total		2,785	100%	824	100%	1,898	100%	2,330	100%	439	100%									
Lab reports	hwritelab	1	True	234	8%	69	8%	161	8%	172	7%	62	14%	8%	8%	.00	7%	14%	***	-.19		
		0	False	2,551	92%	8%	755	92%	1,737	92%	2,158	93%	377								86%	
		Total		2,785	100%	824	100%	1,898	100%	2,330	100%	439	100%									

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

				Frequency Distributions										Mean Comparisons									
				All Students		Gender				First-generation ^a				Gender			First-generation						
				Count	%	Mean	Males		Females		Yes		No		Mean	Mean	ES	Yes		No	ES		
Variable name ^b	Values ^c	Response Options					Count	%	Count	%	Count	%	Count	%				Count	%	Mean		Mean	ES
Journal writing	hwritejou	1	True		455	16%	119	14%	321	17%	348	15%	107	24%	14%	17%	-.07	15%	24%	***	-.22		
		0	False		2,330	84%	16%	705	86%	1,577	83%	1,982	85%	332								76%	
		Total		2,785	100%	824	100%	1,898	100%	2,330	100%	439	100%										
Blogs	hwriteblo	1	True		110	4%	33	4%	75	4%	83	4%	26	6%	4%	4%	.00	4%	6%	*	-.10		
		0	False		2,675	96%	4%	791	96%	1,823	96%	2,247	96%	413								94%	
		Total		2,785	100%	824	100%	1,898	100%	2,330	100%	439	100%										
Wiki's	hwritewik	1	True		26	1%	10	1%	16	1%	21	1%	5	1%	1%	1%	.04	1%	1%		-.02		
		0	False		2,759	99%	1%	814	99%	1,882	99%	2,309	99%	434								99%	
		Total		2,785	100%	824	100%	1,898	100%	2,330	100%	439	100%										
Short answer activities	hwritesho	1	True		2,106	76%	607	74%	1,452	77%	1,742	75%	354	81%	74%	77%	-.07	75%	81%	**	-.15		
		0	False		679	24%	76%	217	26%	446	23%	588	25%	85								19%	
		Total		2,785	100%	824	100%	1,898	100%	2,330	100%	439	100%										
Other	hwriteoth	1	True		185	7%	51	6%	129	7%	152	7%	32	7%	6%	7%	-.02	7%	7%		-.03		
		0	False		2,600	93%	7%	773	94%	1,769	93%	2,178	93%	407								93%	
		Total		2,785	100%	824	100%	1,898	100%	2,330	100%	439	100%										
10. During your last year of high school, about how often did you do each of the following?																							
a Attended class/sessions/discussions without having completed readings or assignments	hclunpre	1	Never		899	32%	266	32%	612	32%	752	32%	146	33%	2.2	2.2	-.03	2.2	2.1		.10		
		2	Sometimes		1,066	38%	323	39%	719	38%	876	38%	183	42%									
		3	Often		211	8%	2.2	72	9%	135	7%	173	7%	35								8%	
		4	Very often		596	22%	162	20%	420	22%	517	22%	75	17%									
		Total		2,772	100%	823	100%	1,886	100%	2,318	100%	439	100%										
b Prepared two or more drafts of an assignment before handing it in	hrewropa	1	Never		164	6%	55	7%	104	6%	129	6%	34	8%	2.7	2.8	***	-.16	2.8	2.7	**	.15	
		2	Sometimes		914	33%	303	37%	593	31%	758	33%	153	35%									
		3	Often		1,043	38%	2.8	302	37%	712	38%	864	37%	172									39%
		4	Very often		643	23%	157	19%	476	25%	560	24%	78	18%									
		Total		2,764	100%	817	100%	1,885	100%	2,311	100%	437	100%										

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

	Variable name ^b	Values ^c	Response Options	Frequency Distributions										Mean Comparisons								
				All Students			Gender				First-generation ^a				Gender			First-generation				
							Males		Females		Yes		No		Males	Females	ES	Yes		No	ES	
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES
c	Used numerical information (numbers, graphs, statistics, etc.) to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	bnumreal	1	Never	308	11%	2.5	82	10%	219	12%	235	10%	70	16%	2.5	2.5	-.04	2.5	2.4	**	.14
2	Sometimes	1,150	42%	364	44%	761		40%	962	42%	181	41%										
3	Often	861	31%	258	31%	587		31%	734	32%	124	28%										
4	Very often	451	16%	117	14%	319		17%	384	17%	64	15%										
Total		2,770	100%	821	100%	1,886		100%	2,315	100%	439	100%										
d	Evaluated what others both have concluded when they used numerical information (numbers, graphs, statistics, etc.)	bothnum	1	Never	444	16%	2.3	129	16%	303	16%	357	15%	81	18%	2.3	2.3	-.04	2.3	2.2	*	.12
2	Sometimes	1,379	50%	422	52%	921		49%	1,153	50%	220	50%										
3	Often	678	25%	191	23%	476		25%	570	25%	106	24%										
4	Very often	265	10%	74	9%	187		10%	233	10%	31	7%										
Total		2,766	100%	816	100%	1,887		100%	2,313	100%	438	100%										
e	Used numerical information (numbers, graphs, statistics, etc.) as evidence to support a claim/argument I made	bnumeid	1	Never	284	10%	2.6	74	9%	202	11%	242	10%	41	9%	2.7	2.6	.05	2.6	2.6	-	.01
2	Sometimes	1,003	36%	284	35%	690		37%	836	36%	158	36%										
3	Often	946	34%	306	38%	622		33%	782	34%	159	36%										
4	Very often	527	19%	152	19%	367		20%	447	19%	79	18%										
Total		2,760	100%	816	100%	1,881		100%	2,307	100%	437	100%										
f	Changed complex data (text or numbers) into a more understandable form (e.g. graphs, maps, tables, infographics)	bchannum	1	Never	295	11%	2.6	84	10%	204	11%	237	10%	56	13%	2.6	2.6	-.05	2.6	2.5	*	.11
2	Sometimes	983	36%	300	37%	657		35%	815	35%	160	37%										
3	Often	938	34%	293	36%	625		33%	785	34%	147	34%										
4	Very often	542	20%	138	17%	394		21%	468	20%	74	17%										
Total		2,758	100%	815	100%	1,880		100%	2,305	100%	437	100%										

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

	Variable name ^b	Values ^c	Response Options	Frequency Distributions										Mean Comparisons									
				All Students			Gender				First-generation ^a				Gender			First-generation					
							Males		Females		Yes		No		Males	Females	ES	Yes	No	ES			
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES	
g	Explained in writing the meaning of numerical or statistical data	bexpnum	1	Never	403	15%	2.4	117	14%	276	15%	328	14%	72	17%	2.4	2.5	-.04	2.5	2.4	.08		
2	Sometimes	1,116	40%	345	42%	746		40%	927	40%	181	42%											
3	Often	844	31%	246	30%	576		31%	715	31%	124	29%											
4	Very often	396	14%	107	13%	283		15%	338	15%	58	13%											
			Total	2,759	100%		815	100%	1,881	100%	2,308	100%	435	100%									
h	Used different learning strategies to identify important information from reading or materials (e.g. reflection, underlining, reciting, writing in your own words, etc.)	bidread	1	Never	53	2%	3.2	20	2%	32	2%	41	2%	11	3%	3.1	3.3	***	-.19	3.2	3.1	*	.13
2	Sometimes	493	18%	173	21%	304		16%	399	17%	89	20%											
3	Often	995	36%	312	38%	667		35%	826	36%	165	38%											
4	Very often	1,221	44%	313	38%	880		47%	1,043	45%	172	39%											
			Total	2,762	100%		818	100%	1,883	100%	2,309	100%	437	100%									
i	Reviewed your notes	brevnotes	1	Never	17	1%	3.5	8	1%	7	0%	13	1%	4	1%	3.4	3.5	***	-.17	3.5	3.4	*	.12
2	Sometimes	216	8%	78	10%	131		7%	174	8%	40	9%											
3	Often	871	32%	281	34%	570		30%	713	31%	153	35%											
4	Very often	1,656	60%	449	55%	1,174		62%	1,407	61%	240	55%											
			Total	2,760	100%		816	100%	1,882	100%	2,307	100%	437	100%									
j	Summarised what you learned in class or from subject materials	bsummat	1	Never	39	1%	3.4	19	2%	19	1%	26	1%	13	3%	3.3	3.5	***	-.22	3.5	3.3	***	.19
2	Sometimes	319	12%	116	14%	196		10%	255	11%	63	14%											
3	Often	809	29%	263	32%	525		28%	663	29%	140	32%											
4	Very often	1,597	58%	420	51%	1,143		61%	1,367	59%	221	51%											
			Total	2,764	100%		818	100%	1,883	100%	2,311	100%	437	100%									
k	Changed my learning strategies to adapt to different modules/subjects	bchanstra	1	Never	195	7%	2.9	67	8%	126	7%	153	7%	41	9%	2.8	2.9	***	-.16	2.9	2.8	.08	
2	Sometimes	837	30%	280	34%	537		29%	703	31%	132	30%											
3	Often	851	31%	247	30%	583		31%	712	31%	135	31%											
4	Very often	871	32%	222	27%	629		34%	733	32%	129	30%											
			Total	2,754	100%		816	100%	1,875	100%	2,301	100%	437	100%									

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

	Variable name ^b	Values ^c	Response Options	Frequency Distributions										Mean Comparisons									
				All Students			Gender				First-generation ^a				Gender			First-generation					
							Males		Females		Yes		No		Males	Females	ES	Yes	No	ES			
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES	
l	Included diverse perspectives (political, religious, racial/ethnic, gender, economic, etc.) in subject discussions or written assignments	bdivclass	1	Never	333	12%	2.5	128	16%	199	11%	284	12%	43	10%	2.4	2.5	**	-.12	2.5	2.6	-.09	
			2	Sometimes	1,200	44%		360	44%	812	43%	1,012	44%	183	42%								
			3	Often	779	28%		197	24%	569	30%	647	28%	129	30%								
			4	Very often	441	16%		130	16%	296	16%	362	16%	77	18%								
			Total		2,753	100%		815	100%	1,876	100%	2,305	100%	432	100%								
m	Examined the strengths and weaknesses of your own views on a topic or issue	bownview	1	Never	113	4%	2.9	41	5%	71	4%	85	4%	27	6%	2.8	2.9	-.05	2.9	2.8	.08		
			2	Sometimes	858	31%		241	30%	597	32%	715	31%	138	32%								
			3	Often	1,056	38%		339	42%	696	37%	889	38%	159	37%								
			4	Very often	732	27%		193	24%	519	28%	621	27%	110	25%								
			Total		2,759	100%		814	100%	1,883	100%	2,310	100%	434	100%								
n	Tried to better understand someone else's views by imagining how an issue looks from their point of view	bothrview	1	Never	44	2%	3.1	20	2%	23	1%	36	2%	8	2%	3.1	3.1	-.03	3.1	3.1	.04		
			2	Sometimes	560	20%		167	21%	382	20%	467	20%	91	21%								
			3	Often	1,126	41%		322	40%	777	41%	936	41%	182	42%								
			4	Very often	1,025	37%		305	37%	696	37%	866	38%	155	36%								
			Total		2,755	100%		814	100%	1,878	100%	2,305	100%	436	100%								
o	Learnt online by participating in sessions, downloading materials, etc.	bonline	1	Never	519	19%	2.5	177	22%	329	17%	441	19%	75	17%	2.4	2.5	*	-.09	2.4	2.6	**	-.14
			2	Sometimes	1,035	37%		302	37%	706	37%	894	39%	137	31%								
			3	Often	621	22%		170	21%	438	23%	497	21%	119	27%								
			4	Very often	587	21%		167	20%	411	22%	480	21%	104	24%								
			Total		2,762	100%		816	100%	1,884	100%	2,312	100%	435	100%								
11. During your last year of high school, to what extent have your subjects challenged you to do your best work?																							
	hacachal		1	Not at all	58	2%	3.1	29	4%	27	1%	53	2%	4	1%	3.0	3.2	***	-.19	3.1	3.3	***	-.19
			2	Some	578	21%		199	24%	368	20%	502	22%	73	17%								
			3	Quite a bit	1,011	37%		299	37%	690	37%	847	37%	157	36%								
			4	Very much	1,098	40%		288	35%	783	42%	894	39%	199	46%								
			Total		2,745	100%		815	100%	1,868	100%	2,296	100%	433	100%								

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

Variable name ^b	Values ^c	Response Options	Frequency Distributions										Mean Comparisons									
			All Students			Gender				First-generation ^a				Gender			First-generation					
			Count	%	Mean	Males		Females		Yes		No		Mean	Mean	ES	Yes		No	ES		
						Count	%	Count	%	Count	%	Count	%				Count	Mean	Mean			
12. During the coming academic year, about how many hours do you expect to spend in a typical 7-day week doing each of the following?																						
a	Preparing for class/sessions/discussions (studying, reading, writing, doing homework or lab work, analysing data, rehearsing, and other academic activities)	cacadpr	1	0	6	0%	3.6	1	0%	4	0%	5	0%	0	0%	3.6	3.6	-.04	3.6	3.7	*	-.13
			2	1-5	523	19%		169	21%	339	18%	464	20%	57	13%							
			3	6-10	837	30%		241	29%	575	30%	693	30%	141	32%							
			4	11-15	663	24%		196	24%	457	24%	543	23%	118	27%							
			5	More than 15	743	27%		217	26%	513	27%	617	27%	121	28%							
			Total		2,772	100%		824	100%	1,888	100%	2,322	100%	437	100%							
b	Working for pay on or off campus	cwork	1	0	1,202	44%	1.8	352	43%	818	44%	965	42%	230	53%	1.8	1.9	-.02	1.9	1.7	***	.27
			2	1-5	971	35%		310	38%	645	35%	824	36%	144	33%							
			3	6-10	429	16%		114	14%	308	16%	381	17%	45	10%							
			4	11-15	82	3%		24	3%	55	3%	71	3%	11	3%							
			5	More than 15	59	2%		17	2%	41	2%	55	2%	4	1%							
			Total		2,743	100%		817	100%	1,867	100%	2,296	100%	434	100%							
c	Participating in co-curricular activities (organisations, campus publications, student government, SRC projects, inter-residence sports, etc.)	ccocurr	1	0	571	21%	2.1	161	20%	393	21%	470	20%	98	22%	2.1	2.1	.07	2.1	2.0		.06
			2	1-5	1,579	57%		467	57%	1,083	58%	1,327	57%	248	57%							
			3	6-10	460	17%		143	17%	308	16%	386	17%	69	16%							
			4	11-15	107	4%		33	4%	70	4%	90	4%	17	4%							
			5	More than 15	43	2%		18	2%	25	1%	38	2%	5	1%							
			Total		2,760	100%		822	100%	1,879	100%	2,311	100%	437	100%							
d	Relaxing and socialising (time with friends, video games, watching TV or movies, sport, mobile and online chatting, etc.)	csocial	1	0	139	5%	2.2	39	5%	95	5%	127	5%	12	3%	2.3	2.2	.08	2.2	2.3	***	-.21
			2	1-5	2,039	74%		594	72%	1,407	75%	1,730	75%	298	68%							
			3	6-10	444	16%		140	17%	291	15%	346	15%	97	22%							
			4	11-15	113	4%		37	5%	75	4%	87	4%	26	6%							
			5	More than 15	29	1%		12	1%	15	1%	25	1%	4	1%							
			Total		2,764	100%		822	100%	1,883	100%	2,315	100%	437	100%							

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

				Frequency Distributions										Mean Comparisons							
				All Students		Gender				First-generation ^a				Gender			First-generation				
Variable name ^b	Values ^c	Response Options			Males		Females		Yes		No		Males	Females	ES	Yes		No		ES	
			Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES		
13. During the coming academic year, about how often do you expect to do each of the following?																					
a Ask another student to help you understand subject material	bhelpund	1 Never	22	1%		12	1%	10	1%	18	1%	4	1%								
		2 Sometimes	922	33%		293	36%	606	32%	767	33%	148	34%								
		3 Often	974	35%	3.0	281	34%	669	35%	806	35%	166	38%	2.9	3.0	*	-.10	3.0	2.9	.07	
		4 Very often	857	31%		239	29%	605	32%	734	32%	120	27%								
	Total	2,775	100%		825	100%	1,890	100%	2,325	100%	438	100%									
b Explain subject material to other students	btutor	1 Never	23	1%		8	1%	14	1%	20	1%	2	0%								
		2 Sometimes	780	28%		240	29%	519	27%	651	28%	124	28%								
		3 Often	1,098	40%	3.0	323	39%	749	40%	896	39%	199	46%	3.0	3.0	-.05	3.0	3.0	.09		
		4 Very often	870	31%		251	31%	607	32%	756	33%	111	25%								
	Total	2,771	100%		822	100%	1,889	100%	2,323	100%	436	100%									
c Prepare for exams by discussing or working through subject material with other students	bprepexam	1 Never	72	3%		28	3%	43	2%	54	2%	18	4%								
		2 Sometimes	683	25%		199	24%	468	25%	548	24%	132	30%								
		3 Often	974	35%	3.1	294	36%	656	35%	818	35%	151	35%	3.1	3.1	-.04	3.1	2.9	***	.20	
		4 Very often	1,040	38%		301	37%	720	38%	900	39%	136	31%								
	Total	2,769	100%		822	100%	1,887	100%	2,320	100%	437	100%									
d Work with other students on projects or assignments	cclassgr	1 Never	81	3%		27	3%	52	3%	63	3%	17	4%								
		2 Sometimes	769	28%		231	28%	517	27%	622	27%	145	33%								
		3 Often	947	34%	3.0	290	35%	636	34%	797	34%	143	33%	3.0	3.0	-.05	3.0	2.9	**	.17	
		4 Very often	972	35%		275	33%	681	36%	838	36%	132	30%								
	Total	2,769	100%		823	100%	1,886	100%	2,320	100%	437	100%									
e Talk about your career plans with a lecturer	bfacplans	1 Never	278	10%		74	9%	193	10%	221	10%	56	13%								
		2 Sometimes	1,231	44%		348	42%	856	45%	1,004	43%	222	51%								
		3 Often	737	27%	2.5	242	29%	482	26%	624	27%	109	25%	2.6	2.5	.07	2.6	2.4	***	.27	
		4 Very often	527	19%		161	20%	357	19%	474	20%	51	12%								
	Total	2,773	100%		825	100%	1,888	100%	2,323	100%	438	100%									

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

	Variable name ^b	Values ^c	Response Options	Frequency Distributions										Mean Comparisons									
				All Students			Gender				First-generation ^a				Gender			First-generation					
							Males		Females		Yes		No		Males	Females	ES	Yes	No	ES			
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES	
f	Work with a lecturer on activities other than academic work (committees, projects, student groups, etc.)	cfacoth	1	Never	364	13%	2.5	103	13%	250	13%	292	13%	70	16%	2.5	2.5	.00	2.5	2.3	***	.23	
	2	Sometimes	1,182	43%	355	43%		801	42%	964	42%	214	49%										
	3	Often	707	26%	216	26%		475	25%	609	26%	93	21%										
	4	Very often	515	19%	148	18%		361	19%	455	20%	59	14%										
			Total		2,768	100%		822	100%	1,887	100%	2,320	100%	436	100%								
g	Discuss your academic performance with a lecturer	cfacgrad	1	Never	195	7%	2.9	45	5%	142	8%	164	7%	30	7%	2.9	2.9	.04	2.9	2.8	*	.14	
	2	Sometimes	790	29%	231	28%		543	29%	649	28%	139	32%										
	3	Often	923	33%	298	36%		602	32%	753	32%	165	38%										
	4	Very often	861	31%	250	30%		598	32%	754	33%	103	24%										
			Total		2,769	100%		824	100%	1,885	100%	2,320	100%	437	100%								
h	Discuss subject topics, ideas, or concepts with a lecturer	cfacidea	1	Never	151	5%	2.9	41	5%	106	6%	126	5%	24	6%	2.9	2.9	.01	2.9	2.7	***	.19	
	2	Sometimes	813	29%	239	29%		554	29%	654	28%	157	36%										
	3	Often	1,008	36%	309	38%		677	36%	842	36%	160	37%										
	4	Very often	795	29%	235	29%		546	29%	697	30%	95	22%										
			Total		2,767	100%		824	100%	1,883	100%	2,319	100%	436	100%								
i	Prepare two or more drafts of a paper or assignment before handing it in	brewropap	1	Never	74	3%	3.1	29	4%	42	2%	60	3%	14	3%	3.0	3.1	***	-.17	3.1	3.0	**	.15
	2	Sometimes	568	21%	200	24%		355	19%	469	20%	95	22%										
	3	Often	1,117	40%	322	39%		767	41%	915	39%	201	46%										
	4	Very often	1,007	36%	271	33%		721	38%	875	38%	126	29%										
			Total		2,766	100%		822	100%	1,885	100%	2,319	100%	436	100%								
j	Attend class/sessions/ discussions without having completed readings or assignments	bclunprep	1	Never	1,554	56%	1.7	458	56%	1,062	57%	1,288	56%	258	59%	1.7	1.7	.00	1.8	1.6	*	.13	
	2	Sometimes	674	24%	200	24%		459	24%	560	24%	112	26%										
	3	Often	213	8%	77	9%		133	7%	183	8%	29	7%										
	4	Very often	318	12%	85	10%		225	12%	280	12%	37	8%										
			Total		2,759	100%		820	100%	1,879	100%	2,311	100%	436	100%								

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

	Variable name ^b	Values ^c	Response Options	Frequency Distributions										Mean Comparisons									
				All Students			Gender		First-generation ^a				Gender			First-generation							
							Count	%	Mean	Males		Females		Yes		No		Mean	Mean	ES	Mean	Mean	ES
				Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES		
k	Learn online by participating in sessions, downloading materials, etc.	conline	1 2 3 4	Never Sometimes Often Very often	51 365 860 1,491	2% 13% 31% 54%	3.4	15 122 272 414	2% 15% 33% 50%	35 237 566 1,046	2% 13% 30% 56%	47 313 731 1,228	2% 13% 32% 53%	4 50 126 256	1%	3.3	3.4	*	-.10	3.4	3.5	**	-.14
Total				2,767	100%		823	100%	1,884	100%	2,319	100%	436	100%									
14. During the coming academic year, about how often do you expect to have discussions with people from the following groups?																							
a	People of a race or ethnicity other than your own	cdivrstu	1 2 3 4	Never Sometimes Often Very often	65 455 996 1,257	2% 16% 36% 45%	3.2	21 159 333 312	3% 19% 40% 38%	40 288 637 923	2% 15% 34% 49%	56 395 840 1,031	2% 17% 36% 44%	8 56 152 223	2%	3.1	3.3	***	-.20	3.2	3.3	**	-.15
Total				2,773	100%		825	100%	1,888	100%	2,322	100%	439	100%									
b	People from an economic background other than your own	bdiffecon	1 2 3 4	Never Sometimes Often Very often	55 488 1,000 1,226	2% 18% 36% 44%	3.2	18 164 328 313	2% 20% 40% 38%	35 310 655 887	2% 16% 35% 47%	48 431 845 997	2% 19% 36% 43%	6 55 148 227	1%	3.1	3.3	***	-.16	3.2	3.4	***	-.22
Total				2,769	100%		823	100%	1,887	100%	2,321	100%	436	100%									
c	People with religious beliefs other than your own	bdiffstu2	1 2 3 4	Never Sometimes Often Very often	71 597 993 1,112	3% 22% 36% 40%	3.1	24 215 291 293	3% 26% 35% 36%	42 368 687 793	2% 19% 36% 42%	57 512 835 917	2% 22% 36% 40%	11 84 153 192	3%	3.0	3.2	***	-.18	3.1	3.2		-.08
Total				2,773	100%		823	100%	1,890	100%	2,321	100%	440	100%									
d	People with political views other than your own	bdiffview	1 2 3 4	Never Sometimes Often Very often	132 773 929 939	5% 28% 34% 34%	3.0	34 272 286 233	4% 33% 35% 28%	88 489 625 687	5% 26% 33% 36%	118 672 774 760	5% 29% 33% 33%	10 100 152 176	2%	2.9	3.0	***	-.16	2.9	3.1	***	-.23
Total				2,773	100%		825	100%	1,889	100%	2,324	100%	438	100%									

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

			Frequency Distributions										Mean Comparisons								
			All Students		Gender				First-generation ^a				Gender			First-generation					
Variable name ^b	Values ^c	Response Options			Males		Females		Yes		No										
			Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES		
15. During the coming academic year, how certain are you that you will do the following?																					
a Study when there are other interesting things to do	cotherint	1 Not at all certain	113	4%		29	4%	82	4%	98	4%	14	3%								
		2	83	3%		26	3%	56	3%	70	3%	13	3%								
		3	233	8%		83	10%	146	8%	184	8%	49	11%								
		4	509	18%	4.8	148	18%	344	18%	403	17%	104	24%	4.8	4.8	-0.04	4.8	4.6	**	.18	
		5	670	24%		205	25%	446	24%	545	24%	124	29%								
		6 Very certain	1,150	42%		326	40%	811	43%	1,015	44%	130	30%								
		Total	2,758	100%		817	100%	1,885	100%	2,315	100%	434	100%								
b Find additional information for subject assignments when you don't understand the material	cfindinfo	1 Not at all certain	16	1%		3	0%	13	1%	14	1%	2	0%								
		2	26	1%		9	1%	17	1%	23	1%	3	1%								
		3	106	4%		38	5%	65	3%	85	4%	21	5%								
		4	231	8%	5.5	82	10%	144	8%	182	8%	48	11%	5.4	5.5	**	-0.12	5.5	5.4	.09	
		5	528	19%		177	22%	337	18%	439	19%	85	20%								
		6 Very certain	1,852	67%		507	62%	1,311	69%	1,572	68%	276	63%								
		Total	2,759	100%		816	100%	1,887	100%	2,315	100%	435	100%								
c Participate regularly in subject discussions, even when you don't feel like it	ccourdis	1 Not at all certain	76	3%		25	3%	50	3%	71	3%	5	1%								
		2	105	4%		38	5%	64	3%	82	4%	23	5%								
		3	332	12%		107	13%	216	11%	262	11%	67	15%								
		4	565	20%	4.7	169	21%	388	21%	453	20%	111	26%	4.6	4.7	*	-0.09	4.7	4.5	**	.16
		5	768	28%		219	27%	528	28%	651	28%	113	26%								
		6 Very certain	912	33%		256	31%	642	34%	795	34%	116	27%								
		Total	2,758	100%		814	100%	1,888	100%	2,314	100%	435	100%								
d Ask lecturers for help when you struggle with subject assignments	caskinst	1 Not at all certain	47	2%		16	2%	29	2%	38	2%	9	2%								
		2	56	2%		18	2%	37	2%	50	2%	6	1%								
		3	165	6%		49	6%	113	6%	127	5%	38	9%								
		4	275	10%	5.3	91	11%	177	9%	216	9%	57	13%	5.2	5.3	-0.07	5.3	5.1	**	.17	
		5	467	17%		148	18%	309	16%	377	16%	89	21%								
		6 Very certain	1,750	63%		496	61%	1,221	65%	1,509	65%	235	54%								
		Total	2,760	100%		818	100%	1,886	100%	2,317	100%	434	100%								

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

				Frequency Distributions										Mean Comparisons							
				All Students		Gender				First-generation ^a				Gender			First-generation				
				Count	%	Males		Females		Yes		No		Mean	Mean	ES	Yes		No	ES	
Variable name ^b	Values ^c	Response Options	Count			Mean	Count	%	Count	%	Count	%	Count				%	Mean	Mean		ES
e Finish something you have started when you encounter challenges	cfinish	1	Not at all certain	34	1%	7	1%	26	1%	33	1%	1	0%								
		2		35	1%	11	1%	24	1%	32	1%	3	1%								
		3		110	4%	37	5%	66	3%	91	4%	19	4%								
		4		276	10%	5.3	91	11%	179	9%	226	10%	49	11%	5.3	5.3	-.02	5.3	5.3	.00	
		5		678	25%		190	23%	475	25%	551	24%	125	29%							
		6	Very certain	1,624	59%		478	59%	1,117	59%	1,380	60%	238	55%							
Total				2,757	100%	814	100%	1,887	100%	2,313	100%	435	100%								
f Stay positive, even when you do poorly on a test or assignment	cstaypos	1	Not at all certain	71	3%	22	3%	45	2%	47	2%	24	6%								
		2		82	3%	21	3%	59	3%	65	3%	17	4%								
		3		140	5%	35	4%	100	5%	101	4%	38	9%								
		4		302	11%	5.2	86	11%	210	11%	215	9%	81	19%	5.3	5.2	.05	5.3	4.7	***	.39
		5		463	17%		132	16%	320	17%	374	16%	88	20%							
		6	Very certain	1,699	62%		521	64%	1,150	61%	1,511	65%	187	43%							
Total				2,757	100%	817	100%	1,884	100%	2,313	100%	435	100%								
16. During the coming academic year, how difficult do you expect the following to be?																					
a Learning subject material	clearnma	1	Not at all difficult	396	14%	111	14%	283	15%	366	16%	29	7%								
		2		395	14%	129	16%	253	13%	337	15%	58	13%								
		3		661	24%	203	25%	446	24%	550	24%	108	25%								
		4		647	23%	3.4	180	22%	452	24%	509	22%	133	31%	3.4	3.4	-.01	3.3	3.7	***	-.23
		5		367	13%		109	13%	253	13%	312	13%	55	13%							
		6	Very difficult	292	11%		85	10%	197	10%	240	10%	52	12%							
Total				2,758	100%	817	100%	1,884	100%	2,314	100%	435	100%								
b Managing your time	cmantime	1	Not at all difficult	627	23%	172	21%	446	24%	582	25%	43	10%								
		2		442	16%	150	18%	283	15%	373	16%	68	16%								
		3		490	18%	152	19%	328	17%	399	17%	90	21%								
		4		490	18%	3.2	143	17%	335	18%	390	17%	99	23%	3.2	3.2	-.01	3.1	3.6	***	-.33
		5		382	14%		109	13%	268	14%	300	13%	81	19%							
		6	Very difficult	329	12%		92	11%	225	12%	272	12%	54	12%							
Total				2,760	100%	818	100%	1,885	100%	2,316	100%	435	100%								

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

	Variable name ^b	Values ^c	Response Options	Frequency Distributions										Mean Comparisons									
				All Students			Gender		First-generation ^a				Gender			First-generation							
							Males		Females		Yes		No		Males	Females	ES	Yes		No	ES		
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES	
c	Paying university expenses	cpaycoll	1	Not at all difficult	397	14%	4.1	117	14%	271	14%	340	15%	55	13%	4.1	4.1	.01	4.1	4.0	.06		
			2		290	11%		78	10%	207	11%	229	10%	60	14%								
			3		339	12%		103	13%	230	12%	291	13%	47	11%								
			4		363	13%		121	15%	237	13%	288	12%	74	17%								
			5		387	14%		115	14%	261	14%	319	14%	68	16%								
			6	Very difficult	977	35%		284	35%	672	36%	843	36%	131	30%								
			Total		2,753	100%		818	100%	1,878	100%	2,310	100%	435	100%								
d	Getting help with academic work	cgethelp	1	Not at all difficult	903	33%	2.7	233	29%	655	35%	795	34%	106	24%	2.8	2.7	*	.09	2.7	2.8	-.09	
			2		484	18%		148	18%	324	17%	398	17%	84	19%								
			3		496	18%		175	21%	308	16%	392	17%	101	23%								
			4		401	15%		115	14%	278	15%	315	14%	85	19%								
			5		253	9%		76	9%	174	9%	215	9%	38	9%								
			6	Very difficult	216	8%		70	9%	140	7%	193	8%	22	5%								
			Total		2,753	100%		817	100%	1,879	100%	2,308	100%	436	100%								
e	Making new friends	cmakefr	1	Not at all difficult	819	30%	3.1	268	33%	542	29%	718	31%	100	23%	2.9	3.2	***	-.17	3.1	3.3	**	-.15
			2		414	15%		123	15%	278	15%	340	15%	68	16%								
			3		419	15%		139	17%	276	15%	343	15%	76	17%								
			4		348	13%		114	14%	226	12%	288	12%	60	14%								
			5		245	9%		70	9%	171	9%	200	9%	44	10%								
			6	Very difficult	512	19%		103	13%	390	21%	421	18%	90	21%								
			Total		2,757	100%		817	100%	1,883	100%	2,310	100%	438	100%								
f	Interacting with staff	cintfac	1	Not at all difficult	758	27%	3.0	238	29%	513	27%	664	29%	93	21%	2.8	3.1	***	-.15	3.0	3.2	**	-.14
			2		429	16%		152	19%	266	14%	351	15%	75	17%								
			3		522	19%		164	20%	353	19%	435	19%	84	19%								
			4		433	16%		115	14%	307	16%	361	16%	70	16%								
			5		268	10%		72	9%	185	10%	212	9%	56	13%								
			6	Very difficult	347	13%		76	9%	259	14%	287	12%	60	14%								
			Total		2,757	100%		817	100%	1,883	100%	2,310	100%	438	100%								

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

Variable name ^b	Values ^c	Response Options	Frequency Distributions										Mean Comparisons									
			All Students			Gender				First-generation ^a				Gender			First-generation					
			Count	%	Mean	Males		Females		Yes		No		Mean	Mean	ES	Yes		No	ES		
						Count	%	Count	%	Count	%	Count	%				Count	%	Mean		Mean	
17. During the coming academic year, do you expect to seek help from the following sources?																						
(Means indicate the percentage who responded "Yes".)																						
a	Lecturers	cseekfac	1	Yes	2,563	93%	93%	757	92%	1,756	93%	2,151	93%	403	92%	92%	93%	-.02	93%	92%	.02	
			2	No	31	1%		11	1%	17	1%	25	1%	6	1%							
			3	I'm not sure	174	6%		51	6%	118	6%	146	6%	28	6%							
			Total		2,768	100%		819	100%	1,891	100%	2,322	100%	437	100%							
b	Academic advisors	cseekaa	1	Yes	2,447	89%	89%	728	89%	1,667	88%	2,062	89%	377	86%	89%	88%	.02	89%	86%	.07	
			2	No	44	2%		9	1%	32	2%	35	2%	9	2%							
			3	I'm not sure	271	10%		80	10%	188	10%	220	9%	50	11%							
			Total		2,762	100%		817	100%	1,887	100%	2,317	100%	436	100%							
c	Tutorials	cseektut	1	Yes	2,631	95%	95%	766	94%	1,810	96%	2,209	95%	414	95%	94%	96%	*	-.11	95%	95%	.03
			2	No	31	1%		8	1%	21	1%	28	1%	3	1%							
			3	I'm not sure	102	4%		44	5%	57	3%	81	3%	20	5%							
			Total		2,764	100%		818	100%	1,888	100%	2,318	100%	437	100%							
d	Writing centre	cseekwritc	1	Yes	1,869	68%	68%	565	69%	1,273	67%	1,604	69%	260	59%	69%	67%	.03	69%	59%	***	.20
			2	No	131	5%		56	7%	72	4%	98	4%	32	7%							
			3	I'm not sure	762	28%		198	24%	541	29%	614	27%	145	33%							
			Total		2,762	100%		819	100%	1,886	100%	2,316	100%	437	100%							
e	Success coaching	cseeksc	1	Yes	1,953	71%	71%	581	71%	1,334	71%	1,699	73%	250	58%	71%	71%	.00	73%	58%	***	.32
			2	No	123	4%		50	6%	69	4%	87	4%	36	8%							
			3	I'm not sure	678	25%		186	23%	477	25%	527	23%	146	34%							
			Total		2,754	100%		817	100%	1,880	100%	2,313	100%	432	100%							
f	Friends or other students (incl. mentors/peer advisors)	cseekfrnd	1	Yes	2,444	89%	89%	716	88%	1,675	89%	2,049	89%	388	89%	88%	89%	-.03	89%	89%	-.01	
			2	No	37	1%		15	2%	21	1%	31	1%	6	1%							
			3	I'm not sure	280	10%		85	10%	191	10%	235	10%	43	10%							
			Total		2,761	100%		816	100%	1,887	100%	2,315	100%	437	100%							

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

	Variable name ^b	Values ^c	Response Options	Frequency Distributions										Mean Comparisons									
				All Students			Gender				First-generation ^a				Gender			First-generation					
							Males		Females		Yes		No		Males	Females	ES	Yes	No	ES			
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES	
g	Counselling	cseekcoun	1	Yes	1,635	59%	59%	447	55%	1,154	61%	1,419	61%	214	49%	55%	61%	**	-.13	61%	49%	***	.25
		2	No	283	10%	112		14%	163	9%	218	9%	64	15%									
		3	I'm not sure	845	31%	259		32%	571	30%	679	29%	160	37%									
			Total	2,763	100%		818	100%	1,888	100%	2,316	100%	438	100%									
h	Health	cseekhlth	1	Yes	1,846	67%	67%	539	66%	1,273	68%	1,596	69%	246	57%	66%	68%	-	.04	69%	57%	***	.25
		2	No	241	9%	88		11%	144	8%	193	8%	48	11%									
		3	I'm not sure	661	24%	190		23%	457	24%	517	22%	140	32%									
			Total	2,748	100%		817	100%	1,874	100%	2,306	100%	434	100%									
i	Disability office	cseekdis	1	Yes	380	14%	14%	110	14%	261	14%	349	15%	31	7%	14%	14%	-	.01	15%	7%	***	.31
		2	No	1,448	53%	426		53%	994	53%	1,155	50%	288	67%									
		3	I'm not sure	909	33%	274		34%	616	33%	793	35%	113	26%									
			Total	2,737	100%		810	100%	1,871	100%	2,297	100%	432	100%									
j	Career office	cseekcar	1	Yes	2,114	77%	77%	627	77%	1,446	77%	1,826	79%	282	65%	77%	77%	-	.01	79%	65%	***	.30
		2	No	168	6%	56		7%	105	6%	127	6%	41	9%									
		3	I'm not sure	467	17%	133		16%	325	17%	352	15%	112	26%									
			Total	2,749	100%		816	100%	1,876	100%	2,305	100%	435	100%									
k	Financial aid office	cseekfin	1	Yes	1,908	69%	69%	575	70%	1,295	69%	1,643	71%	262	60%	70%	69%	.	.03	71%	60%	***	.23
		2	No	218	8%	60		7%	148	8%	153	7%	65	15%									
		3	I'm not sure	630	23%	183		22%	437	23%	514	22%	110	25%									
			Total	2,756	100%		818	100%	1,880	100%	2,310	100%	437	100%									
l	Student wellness	cseekwell	1	Yes	2,047	74%	74%	579	71%	1,422	76%	1,762	76%	280	64%	71%	76%	*	-.11	76%	64%	***	.25
		2	No	164	6%	65		8%	95	5%	125	5%	39	9%									
		3	I'm not sure	541	20%	172		21%	361	19%	420	18%	117	27%									
			Total	2,752	100%		816	100%	1,878	100%	2,307	100%	436	100%									
m	Student food bank	cseekfood	1	Yes	1,627	59%	59%	498	61%	1,098	58%	1,462	63%	163	37%	61%	58%	.	.05	63%	37%	***	.53
		2	No	329	12%	88		11%	231	12%	216	9%	112	26%									
		3	I'm not sure	798	29%	230		28%	552	29%	633	27%	160	37%									
			Total	2,754	100%		816	100%	1,881	100%	2,311	100%	435	100%									

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

				Frequency Distributions										Mean Comparisons							
				All Students			Gender				First-generation ^a				Gender			First-generation			
				Count	%	Mean	Males		Females		Yes		No		Mean	Mean	ES	Mean	Mean	ES	
Variable name ^b	Values ^c	Response Options					Count	%	Count	%	Count	%	Count	%							
n Residence (head, residence committee, mentor, etc.)	cseekres	1	Yes	1,657	60%	60%	499	61%	1,124	60%	1,443	63%	212	49%	61%	60%	.03	63%	49%	***	.28
		2	No	457	17%		130	16%	319	17%	320	14%	136	31%							
		3	I'm not sure	638	23%		186	23%	436	23%	545	24%	88	20%							
		Total			2,752	100%		815	100%	1,879	100%	2,308	100%	436	100%						
o Online support resources (portals, digital platforms, etc.)	cseekonl	1	Yes	2,307	84%	84%	681	83%	1,576	84%	1,965	85%	337	77%	83%	84%	-.01	85%	77%	***	.18
		2	No	130	5%		48	6%	79	4%	95	4%	34	8%							
		3	I'm not sure	318	12%		88	11%	226	12%	251	11%	65	15%							
		Total			2,755	100%		817	100%	1,881	100%	2,311	100%	436	100%						
p Library	cseeklib	1	Yes	2,626	95%	95%	772	94%	1,800	96%	2,202	95%	416	95%	94%	96%	-.06	95%	95%		.02
		2	No	44	2%		15	2%	29	2%	34	1%	10	2%							
		3	I'm not sure	89	3%		32	4%	54	3%	75	3%	13	3%							
		Total			2,759	100%		819	100%	1,883	100%	2,311	100%	439	100%						
q Other	cseekoth	1	Yes	1,489	56%	56%	430	54%	1,028	56%	1,287	57%	197	47%	54%	56%	-.04	57%	47%	***	.20
		2	No	127	5%		48	6%	79	4%	96	4%	31	7%							
		3	I'm not sure	1,053	39%		313	40%	715	39%	862	38%	188	45%							
		Total			2,669	100%		791	100%	1,822	100%	2,245	100%	416	100%						
18. How prepared are you to do the following in your academic work at this university?																					
a Write clearly and effectively	cgnwrite	1	Not at all prepared	21	1%	5.2	3	0%	17	1%	20	1%	1	0%	5.1	5.3	***	-.18	5.2	5.1	.08
		2		38	1%		17	2%	18	1%	29	1%	8	2%							
		3		182	7%		65	8%	108	6%	155	7%	27	6%							
		4		406	15%		149	18%	251	13%	327	14%	78	18%							
		5		631	23%		194	24%	426	23%	514	22%	113	26%							
		6	Very prepared	1,485	54%		392	48%	1,065	56%	1,271	55%	211	48%							
		Total			2,763	100%		820	100%	1,885	100%	2,316	100%	438	100%						

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

	Variable name ^b	Values ^c	Response Options	Frequency Distributions										Mean Comparisons								
				All Students			Gender		First-generation ^a				Gender			First-generation						
							Males	Females	Yes		No		Males	Females	ES	Yes		No	ES			
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES
f	Use computing and information technology	cgncmpt	1	Not at all prepared	76	3%		16	2%	57	3%	66	3%	10	2%							
			2		93	3%		30	4%	56	3%	83	4%	10	2%							
			3		194	7%		53	6%	137	7%	161	7%	31	7%							
			4		487	18%	4.9	135	17%	343	18%	397	17%	89	20%	5.0	4.9	.07	4.9	5.0	-.02	
			5		631	23%		182	22%	441	23%	538	23%	92	21%							
			6	Very prepared	1,274	46%		400	49%	847	45%	1,066	46%	203	47%							
			Total		2,755	100%		816	100%	1,881	100%	2,311	100%	435	100%							
g	Learn effectively on your own	cgningq	1	Not at all prepared	22	1%		5	1%	15	1%	19	1%	3	1%							
			2		35	1%		13	2%	22	1%	30	1%	5	1%							
			3		106	4%		35	4%	69	4%	86	4%	20	5%							
			4		318	12%	5.4	112	14%	196	10%	267	12%	48	11%	5.3	5.4	*	-.10	5.4	5.3	.04
			5		573	21%		176	22%	385	20%	467	20%	106	24%							
			6	Very prepared	1,700	62%		475	58%	1,193	63%	1,441	62%	253	58%							
			Total		2,754	100%		816	100%	1,880	100%	2,310	100%	435	100%							
19. How important is it to you that the university provides each of the following?																						
a	A challenging academic experience	cenvscho	1	Not important	94	3%		17	2%	75	4%	80	3%	14	3%							
			2		118	4%		25	3%	91	5%	103	4%	15	3%							
			3		399	14%		118	14%	275	15%	329	14%	70	16%							
			4		642	23%	4.6	191	23%	440	23%	517	22%	124	28%	4.7	4.5	**	.10	4.6	4.4	.10
			5		563	20%		182	22%	368	19%	468	20%	91	21%							
			6	Very important	949	34%		287	35%	639	34%	822	35%	123	28%							
			Total		2,765	100%		820	100%	1,888	100%	2,319	100%	437	100%							
b	Support to help you succeed academically	cenvsupr	1	Not important	5	0%		2	0%	3	0%	4	0%	1	0%							
			2		12	0%		7	1%	3	0%	12	1%	0	0%							
			3		51	2%		26	3%	25	1%	47	2%	4	1%							
			4		117	4%	5.8	49	6%	61	3%	96	4%	21	5%	5.6	5.8	***	-.29	5.7	5.8	-.02
			5		229	8%		86	11%	142	8%	182	8%	45	10%							
			6	Very important	2,344	85%		649	79%	1,649	88%	1,972	85%	365	84%							
			Total		2,758	100%		819	100%	1,883	100%	2,313	100%	436	100%							

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

	Variable name ^b	Values ^c	Response Options	Frequency Distributions										Mean Comparisons									
				All Students			Gender				First-generation ^a				Gender			First-generation					
							Males		Females		Yes		No		Males	Females	ES	Yes	No	ES			
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES	
c	Opportunities to interact with students from different backgrounds (social, racial/ethnic, religious, etc.)	cenvdivr	1	Not important	18	1%	5.5	7	1%	9	0%	17	1%	1	0%	5.4	5.5	***	-.18	5.5	5.4	*	.11
	2		29	1%	11	1%		16	1%	27	1%	2	0%										
	3		105	4%	42	5%		62	3%	79	3%	25	6%										
	4		240	9%	86	11%		148	8%	185	8%	53	12%										
	5		435	16%	137	17%		287	15%	361	16%	71	16%										
	6	Very important	1,930	70%	532	65%		1,363	72%	1,643	71%	284	65%										
	Total		2,757	100%	815	100%	1,885	100%	2,312	100%	436	100%											
d	Help managing your non-academic responsibilities (work, family, etc.)	cenvnaca	1	Not important	166	6%	4.6	41	5%	122	6%	134	6%	32	7%	4.6	4.6	-.01	4.7	4.4	***	.19	
	2		146	5%	43	5%		100	5%	117	5%	28	6%										
	3		303	11%	93	11%		201	11%	241	10%	60	14%										
	4		471	17%	150	18%		310	16%	383	17%	86	20%										
	5		477	17%	156	19%		314	17%	396	17%	81	19%										
	6	Very important	1,194	43%	333	41%		837	44%	1,041	45%	150	34%										
	Total		2,757	100%	816	100%	1,884	100%	2,312	100%	437	100%											
e	Opportunities to be involved socially (not related to academic work)	cenvsoca	1	Not important	202	7%	4.4	54	7%	144	8%	182	8%	20	5%	4.4	4.5	-.04	4.4	4.5	-	.07	
	2		153	6%	49	6%		99	5%	127	5%	26	6%										
	3		370	13%	122	15%		241	13%	317	14%	52	12%										
	4		527	19%	165	20%		351	19%	424	18%	100	23%										
	5		492	18%	146	18%		334	18%	408	18%	81	19%										
	6	Very important	1,015	37%	284	35%		713	38%	855	37%	158	36%										
	Total		2,759	100%	820	100%	1,882	100%	2,313	100%	437	100%											
f	Opportunities to attend campus events and activities	cenveven	1	Not important	72	3%	4.9	24	3%	47	3%	57	2%	15	3%	4.8	4.9	-.03	4.9	4.8	.	.05	
	2		107	4%	31	4%		73	4%	84	4%	23	5%										
	3		272	10%	75	9%		186	10%	233	10%	37	8%										
	4		482	17%	157	19%		317	17%	405	18%	74	17%										
	5		541	20%	162	20%		370	20%	451	20%	90	21%										
	6	Very important	1,282	47%	370	45%		887	47%	1,081	47%	197	45%										
	Total		2,756	100%	819	100%	1,880	100%	2,311	100%	436	100%											

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

	Variable name ^b	Values ^c	Response Options	Frequency Distributions										Mean Comparisons									
				All Students			Gender				First-generation ^a				Gender			First-generation					
							Males		Females		Yes		No		Males	Females	ES	Yes		No	ES		
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES	
g	Learning support services (tutoring services, peer mentoring, writing centre, library, etc.)	benvlear	1	Not important	6	0%		3	0%	3	0%	3	0%										
			2		18	1%		7	1%	10	1%	16	1%	2	0%								
			3		99	4%		37	5%	61	3%	82	4%	16	4%								
			4		250	9%	5.5	92	11%	153	8%	199	9%	49	11%	5.4	5.6	***	-.20	5.5	5.4	.10	
			5		443	16%		153	19%	279	15%	364	16%	77	18%								
			6	Very important	1,941	70%		523	64%	1,379	73%	1,647	71%	290	66%								
			Total		2,757	100%		815	100%	1,885	100%	2,311	100%	437	100%								
20. How skilled are you in the following:																							
a	Using my university's learning management system (e.g. Blackboard, Moodle, RUconnected, Vula Sakai, etc.)	lmsskill	1	I am not skilled in this at all	28	1%		4	0%	24	1%	25	1%	3	1%								
			2	I am struggling	261	9%		83	10%	173	9%	242	10%	19	4%								
			3	Not that skilled but I can manage	2,045	74%	3.0	598	73%	1,403	74%	1,742	75%	295	68%	3.1	3.0	.04	3.0	3.2	***	-.38	
			4	Very skilled	426	15%		134	16%	284	15%	307	13%	118	27%								
			Total		2,760	100%		819	100%	1,884	100%	2,316	100%	435	100%								
b	Basic computer skills like using a mouse, typing, etc.	compskill	1	I am not skilled in this at all	86	3%		23	3%	62	3%	80	3%	6	1%								
			2	I am struggling	241	9%		45	6%	189	10%	220	10%	21	5%								
			3	Not that skilled but I can manage	1,363	49%	3.2	388	48%	947	50%	1,218	53%	140	32%	3.3	3.2	***	.18	3.2	3.5	***	-.56
			4	Very skilled	1,068	39%		360	44%	687	36%	794	34%	270	62%								
			Total		2,758	100%		816	100%	1,885	100%	2,312	100%	437	100%								
c	Microsoft Office (e.g. Word, Excel, PowerPoint)	offskill	1	I am not skilled in this at all	251	9%		68	8%	181	10%	232	10%	19	4%								
			2	I am struggling	467	17%		114	14%	341	18%	427	18%	37	8%								
			3	Not that skilled but I can manage	1,409	51%	2.9	448	55%	933	49%	1,195	52%	211	48%	2.9	2.9	.08	2.8	3.2	***	-.52	
			4	Very skilled	634	23%		188	23%	431	23%	460	20%	171	39%								
			Total		2,761	100%		818	100%	1,886	100%	2,314	100%	438	100%								

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



BUSSE 2022 Frequency and Mean Comparisons

University of the Free State

	Variable name ^b	Values ^c	Response Options	Frequency Distributions										Mean Comparisons									
				All Students			Gender				First-generation ^a				Gender			First-generation					
							Males		Females		Yes		No		Males	Females	ES	Yes	No	ES			
				Count	%	Mean	Count	%	Count	%	Count	%	Count	%	Count	%	Mean	Mean	ES	Mean	Mean	ES	
d	Uploading and downloading content	upskill	1	I am not skilled in this at all	89	3%	3.2	24	3%	64	3%	82	4%	7	2%	3.3	3.2	***	.14	3.2	3.5	***	-.43
2	I am struggling	310	11%	65	8%	235		12%	286	12%	23	5%											
3	Not that skilled but I can manage	1,269	46%	373	46%	870		46%	1,097	47%	167	38%											
4	Very skilled	1,093	40%	354	43%	719		38%	850	37%	240	55%											
			Total	2,761	100%		816	100%	1,888	100%	2,315	100%	437	100%									
e	Sending and receiving emails	mailskill	1	I am not skilled in this at all	18	1%	3.6	8	1%	10	1%	17	1%	1	0%	3.6	3.6	*	-.10	3.6	3.7	***	-.33
2	I am struggling	76	3%	27	3%	46		2%	71	3%	5	1%											
3	Not that skilled but I can manage	873	32%	272	33%	577		31%	766	33%	100	23%											
4	Very skilled	1,797	65%	513	63%	1,254		66%	1,463	63%	332	76%											
			Total	2,764	100%		820	100%	1,887	100%	2,317	100%	438	100%									
f	Using the internet for academic purposes	intskill	1	I am not skilled in this at all	23	1%	3.6	6	1%	16	1%	20	1%	3	1%	3.6	3.6		.00	3.5	3.7	***	-.33
2	I am struggling	110	4%	34	4%	74		4%	102	4%	8	2%											
3	Not that skilled but I can manage	947	34%	280	34%	646		34%	837	36%	105	24%											
4	Very skilled	1,687	61%	499	61%	1,155		61%	1,361	59%	322	74%											
			Total	2,767	100%		819	100%	1,891	100%	2,320	100%	438	100%									
g	Effectively making use of the library's digital resources	libskill	1	I am not skilled in this at all	185	7%	3.0	48	6%	132	7%	157	7%	27	6%	3.0	3.0		.06	3.0	3.0		-.09
2	I am struggling	414	15%	112	14%	291		15%	358	15%	55	13%											
3	Not that skilled but I can manage	1,447	52%	438	54%	980		52%	1,212	52%	229	52%											
4	Very skilled	718	26%	220	27%	487		26%	592	26%	126	29%											
			Total	2,764	100%		818	100%	1,890	100%	2,319	100%	437	100%									

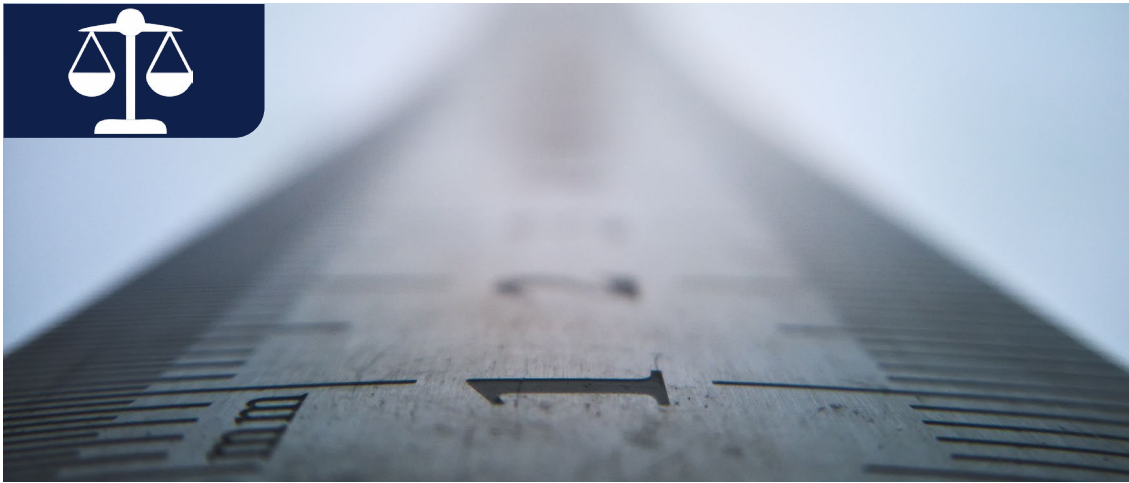
*p<.05, **p<.01, ***p<.001 (2-tailed)



BUSSE 2022 Institutional Report University of the Free State

Endnotes

- a. First-generation is defined as no parent or guardian having graduated with a university degree.
- b. Please refer to BUSSE 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 used to calculate means are midpoints of response option ranges and an estimate for unbounded options.



Scale Means





Scale Means About This Report

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



Scale Mean Scores and Selected Student Comparisons BUSSEville University

BUSSE Scales	Variable	All Students			Gender			First-generation ^a				
		Mean	SD	N	Males	Females	ES	FG	Non-FG	ES		
					Mean	Mean		Mean	Mean			
Quantitative Reasoning <i>High school engagement with analysis and numerical information</i>	HS_QR	40.4	12.8	1324	38.5	41.3	***	-0.23	41.5	38.3	***	0.24
Learning Strategies <i>Use of effective learning strategies in high school</i>	HS_LS	39.2	12.8	5541	37.6	40.0	***	-0.20	39.7	37.7	***	0.16
Collaborative Learning <i>Expectation to interact and collaborate with peers</i>	EXP_CL	37.1	12.3	5547	36.9	37.2		-0.03	37.8	35.5	***	0.19
Student-Staff Interaction <i>Expectation to interact and engage with staff</i>	EXP_SSI	25.4	14.4	5546	26.4	24.8	***	0.11	26.3	23.0	***	0.23

1. **Scale description and variable name:** A brief description of the BUSSE scale along with the variable name for easy reference to your data file and codebook. See Scale Descriptions for more information.
2. **Mean:** The unweighted scale mean is reported overall for the institution, as well as by gender and first-generation status.
3. **Statistical comparisons:** Items with mean differences that are larger than would be expected by chance are noted with asterisks referring to three significance levels (* $p < .05$, ** $p < .01$, and *** $p < .001$). 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 #4) to judge the practical meaning of differences. Statistical comparisons are two-tailed independent t -tests.
4. **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.



BUSSE 2022 Scale Mean Scores and Selected Student Comparisons

University of the Free State

BUSSE Scales	Variable ^b	All Students			Gender			First-Generation ^a			
					Males	Females	ES	FG	Non-FG	ES	
		Mean	SD	N	Mean	Mean		Mean	Mean		
Quantitative Reasoning <i>High school engagement with analysis and numerical information</i>	HS_QR	30.0	12.9	2770	29.7	30.1	-0.03	30.3	28.7	*	0.12
Learning Strategies <i>Use of effective learning strategies in high school</i>	HS_LS	45.2	11.2	2769	43.2	46.1	*** -0.26	45.5	43.5	***	0.18
Collaborative Learning <i>Expectation to interact and collaborate with peers</i>	EXP_CL	40.3	12.9	2775	39.7	40.7	-0.08	40.7	38.5	**	0.17
Student-Staff Interaction <i>Expectation to interact and engage with staff</i>	EXP_SSI	34.0	15.2	2775	34.5	34.0	0.04	34.6	31.0	***	0.26
Expected Discussions with Diverse Others <i>Expectation to engage in discussions with diverse others</i>	EXP_DD	42.8	14.3	2774	40.9	43.8	*** -0.20	42.4	45.2	***	-0.20
Expected Academic Perseverance <i>Student certainty that they will persist in the face of academic adversity</i>	EXP_PER	49.5	9.4	2763	49.1	49.8	-0.07	49.9	47.3	***	0.27
Expected Academic Difficulty <i>Expected academic difficulty during the coming year</i>	EXP_DIF	25.0	14.9	2762	24.6	25.1	-0.03	24.5	28.0	***	-0.27
Perceived Academic Preparation <i>Student perception of their academic preparation</i>	PER_PREP	49.1	9.8	2763	48.9	49.2	-0.03	49.2	48.2	*	0.11
Importance of Campus Environment <i>Student-rated importance that the institution provides a challenging and supportive environment</i>	IMP_CAMP	48.4	9.0	2767	47.9	48.7	* -0.10	48.6	47.6	*	0.11



BUSSE Scales

BUSSE 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 BUSSE items in parentheses.

Scale name	Description	Scale items
<i>Quantitative Reasoning (HS_QR)</i>	High school engagement with analysis and numerical information	bnumreal, bothnum, bnumeid, bchannum, bexpnum
<i>Learning Strategies (HS_LS)</i>	Use of effective learning strategies in high school	bidread, brevnotes, bsummat, bchanstra
<i>Collaborative Learning (EXP_CL)</i>	Expectation to interact and collaborate with peers	bhelpund, btutor, bprepexam, cclassgr
<i>Student-Staff Interaction (EXP_SSI)</i>	Expectation to interact and engage with staff	bfacplans, cfacothe, cfacgrad, cfacidea
<i>Discussions with Diverse Others (EXP_DD)</i>	Expectation to engage in discussions with diverse others	cdivrstu, bdiffecon, bdiffstu2, bdiffview
<i>Academic Perseverance (EXP_PER)</i>	Student certainty that they will persist in the face of academic adversity	cotherint, cfindinfo, ccourdis, caskinst, cfinish, cstaypos
<i>Academic Difficulty (EXP_DIF)</i>	Expected academic difficulty during the coming year	clearnma, cmantime, cgethelp, cintfac
<i>Perceived Academic Preparation (PER_PREP)</i>	Student perception of their academic preparation	cgnwrite, cgnspeak, cgnanaly, cgquant, cgnother, cgncmpt, cgning
<i>Importance of Campus Environment (IMP_CAMP)</i>	Student-rated importance that the institution provides a challenging and supportive environment	cenvscho, cenvsupr, cenvdivr, cenvnaca, cenvsoca, cenveven, benvlear



Codebook





BUSSE 2022 Codebook

Survey questions are listed in the order that students received them. Response options appear in italics beneath. Variable names appear in brackets (e.g., [matriculate]) after each item.

Please fill in your student number. [studnum]

1. Please indicate the year you matriculated from high school. [matriculate]

Response options: Before 2017=1, 2017=2, 2018=3, 2019=4, 2020=5, 2021=6

2. If response is not most recent year: Since matriculating from high school, which of the following have you done? (Mark all that apply.)

Response options: Selected=1, Not selected=0

- Attended another post-school institution [tattend]
- Worked full-time [twork_ft]
- Worked part-time [twork_pt]
- Stayed at home without working or studying [thome]
- Volunteered [tvolunteer]
- Travelled [ttravel]
- Took time to better matric results [tmatric]
- Other, please specify [tsinceoth]

- Other, please specify [tsinceoth_txt]

Response options: Text box

Note: Item was only given if the respondent selected 'Other' in item 2

3. If Attended another post-school institution: Since finishing high school, which of the following type(s) of institution(s) have you attended other than the one you are attending now? (Mark all that apply.)

Response options: Selected=1, Not selected=0

- Another public higher education institution [tattend_pub]
- Another private higher education institution [tattend_priv]
- TVET college (technical or vocational college) [tattend_tvset]
- Private training college [tattend_col]
- Other [tattend_other]

4. From which type of high school did you matriculate? (Mark only one.) [htype]

Response options: Public=1, Private (independent schools, religious schools, homeschools, etc.)=2, Other, Please specify=3

- Other, please specify: [htype_specify]

Response option: Text box

Note: Item was only given if the respondent selected 'Other' in item 4

5. What were most of your high school marks? (Mark only one.) [hgrades]

Response options: 0-29%=1, 30-39%=2, 40-49%=3, 50-59%=4, 60-69%=5, 70-79%=6, 80-89%=7, 90-100%=8

6. During your last year of high school, about how many papers, reports, or other written tasks of the following lengths did you complete?

Response options: None=1, 1-2=2, 3-5=3, 6-10=4, 11-15=5, More than 15 papers=6

- a. Up to 5 pages [hwrite5]
- b. Between 6 and 10 pages [hwrite5m]
- c. 11 pages or more [hwriteomor]

BUSSE 2022 Codebook

7. During your *last year* of high school, about how many hours did you spend in a typical 7-day week doing each of the following?

Response options: 0=1, 1-5=2, 6-10=3, 11-15=4, More than 15 hours per week=5

- a. Preparing for class (studying, reading, writing, doing homework, rehearsing, and other academic activities) [hacadpr]
- b. Working for pay [hwork]
- c. Participating in co-curricular (extracurricular) activities (organisations, school publications, student government, sports, etc.) [hcocurr]
- d. Relaxing and socialising (time with friends, video games, watching TV or movies, sport, mobile and online chatting, etc.) [hsocial]

8. During your *last year* of high school, in a typical 7-day week, how many hours did you spend reading? [hread]

Response options: 0=1, 1-5=2, 6-10=3, 11-15=4, More than 15 hours per week=5

9. During your *last year* of high school, which of the following types of writing have you done? (Mark all that apply.)

Response options: Selected=1, Not selected=0

- Essays [hwriteess]
- Assignments/projects [hwriteass]
- Reports [hwriterep]
- Reflective writing [hwriteref]
- Case studies [hwritecas]
- Lab reports [hwritelab]
- Journal writing [hwritejou]
- Blogs [hwriteblo]
- Wiki's [hwritewik]
- Short answer activities [hwritesho]
- Other, please specify [hwriteoth]

- Other, please specify [hwriteoth _txt]

Response options: Text box

Note: Item was only given if the respondent selected 'Other' in item 9

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10. During your *last year of high school*, about how often did you do each of the following?

Response options: Very often=4, Often=3, Sometimes=2, Never=1

- a. Attended class/sessions/discussions without having completed readings or assignments [hclunpre]
- b. Prepared two or more drafts of an assignment before handing it in [hrewropa]
- c. Used numerical information (numbers, graphs, statistics, etc.) to examine a real-world problem or issue (unemployment, climate change, public health, etc.) [bnumreal]*
- d. Evaluated what others have concluded when they used numerical information (numbers, graphs, statistics, etc.) [bothnum]*
- e. Used numerical information (numbers, graphs, statistics, etc.) as evidence to support a claim/argument I made [bnumevld]*
- f. Changed complex data (text or numbers) into a more understandable form (e.g. graphs, maps, tables, infographics) [bchannum]*
- g. Explained in writing the meaning of numerical or statistical data [bexpnum]*

*Aggregate BUSSE Scale High School Engagement in Quantitative Reasoning (HS_QR)

- h. Used different learning strategies to identify important information from readings or materials (e.g. reflection, underlining, reciting, writing in your own words, etc.) [bidread]*
- i. Reviewed your notes [brevnotes]*
- j. Summarised what you learned in class or from subject materials [bsummat]*
- k. Changed my learning strategies to adapt to different modules/subjects [bchanstra]*

*Aggregate BUSSE Scale High School Engagement in Learning Strategies (HS_LS)

- l. Included diverse perspectives (political, religious, racial/ethnic, gender, economic, etc.) in subject discussions or written assignments [bdivclass]
- m. Examined the strengths and weaknesses of your own views on a topic or issue [bownview]
- n. Tried to better understand someone else's views by imagining how an issue looks from their point of view [bothrview]
- o. Learnt online by participating in sessions, downloading materials, etc. [bonline]

11. During your *last year of high school*, to what extent have your subjects challenged you to do your best work? [hacachal]

Response options: Very much=4, Quite a bit=3, Some=2, Not at all=1

12. During the coming academic year, about how many hours do you expect to spend in a typical 7-day week doing each of the following?

Response options: 0=1, 1-5=2, 6-10=3, 11-15=4, More than 15 hours per week=5

- a. Preparing for class/sessions/discussions (studying, reading, writing, doing homework or lab work, analysing data, rehearsing, and other academic activities) [cacadpr]
- b. Working for pay on or off campus [cwork]
- c. Participating in co-curricular activities (organisations, campus publications, student government, SRC projects, inter-residence sports, etc.) [ccocurr]
- d. Relaxing and socialising (time with friends, video games, watching TV or movies, sport, mobile and online chatting, etc.) [csocial]

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13. During the coming academic year, about how often do you expect to do each of the following?

Response options: Very often=4, Often=3, Sometimes=2, Never=1

- a. Ask another student to help you understand subject material [bhelpund]*
- b. Explain subject material to other students [btutor]*
- c. Prepare for exams by discussing or working through subject material with other students [bprepexam]*
- d. Work with other students on projects or assignments [cclassgr]*

*Aggregate BUSSE Scale Expected Engagement in Collaborative Learning (EXP_CL)

- e. Talk about your career plans with a lecturer [bfacplans]*
- f. Work with a lecturer on activities other than academic work (committees, projects, student groups, etc.) [cfacothel]*
- g. Discuss your academic performance with a lecturer [cfacgrad]*
- h. Discuss subject topics, ideas, or concepts with a lecturer [cfacidea]*

*Aggregate BUSSE Scale Expected Engagement with Staff (EXP_SSI)

- i. Prepare two or more drafts of a paper or assignment before handing it in [brewropap]
- j. Attend class/sessions/discussions without having completed readings or assignments [bclunprep]
- k. Learn online by participating in sessions, downloading materials, etc. [conline]

14. During the coming academic year, about how often do you expect to have discussions with people from the following groups?

Response options: Very often=4, Often=3, Sometimes=2, Never=1

- a. People of a race or ethnicity other than your own [cdivrstu]*
- b. People from an economic background other than your own [bdiffecon]*
- c. People with religious beliefs other than your own [bdiffstu2]*
- d. People with political views other than your own [bdiffview]*

*Aggregate BUSSE Scale Expected Discussions with Diverse Others (EXP_DD)

15. During the coming academic year, how certain are you that you will do the following? (On a scale from 1-6, where 1 = "Not at all certain" and 6 = "Very certain").

Response options: Not at all certain=1 to Very certain=6

- a. Study when there are other interesting things to do [cotherint]*
- b. Find additional information for subject assignments when you don't understand the material [cfindinfo]*
- c. Participate regularly in subject discussions, even when you don't feel like it [ccourdis]*
- d. Ask lecturers for help when you struggle with subject assignments [caskinst]*
- e. Finish something you have started when you encounter challenges [cfinish]*
- f. Stay positive, even when you do poorly on a test or assignment [cstaypos]*

*Aggregate BUSSE Scale Expected Academic Perseverance (EXP_PER)

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16. During the coming academic year, how difficult do you expect the following to be? (On a scale from 1-6, where 1 = “Not at all difficult” and 6 = “Very difficult”).

Response options: Not at all difficult=1 to Very difficult=6

- a. Learning subject material [clearma]*
- b. Managing your time [cmantime]*
- c. Paying university expenses [cpaycoll]
- d. Getting help with academic work [cgethelp]*
- e. Making new friends [cmakefr]
- f. Interacting with staff [cintfac]*

*Aggregate BUSSE Scale Expected Academic Difficulty (EXP_DIF)

17. During the coming academic year, do you expect to seek help from the following sources?

Response options: Yes=1, No=2, I'm not sure=3

- a. Lecturers [cseekfac]
- b. Academic advisors [cseekaa]
- c. Tutorials [cseektut]
- d. Writing centre [cseekwritc]
- e. Success coaching [cseeksc]
- f. Friends or other students (incl. mentors/peer advisors) [cseekfrnd]
- g. Counselling [cseekcoun]
- h. Health [cseekhlth]
- i. Disability office [cseekdis]
- j. Career office [cseekcar]
- k. Financial aid office [cseekfin]
- l. Student wellness [cseekwell]
- m. Student food bank [cseekfood]
- n. Residence (head, residence committee, mentor, etc.) [cseekres]
- o. Online support resources (portals, digital platforms, etc.) [cseekonl]
- p. Library [cseeklib]
- q. Other, please specify [cseekoth]

- Other, please specify [cseekoth_txt]

Response options: Text box

Note: Item was only given if the respondent selected 'Yes' in item 17q

18. How prepared are you to do the following in your academic work at this university? (On a scale from 1-6, where 1 = “Not at all prepared” and 6 = “Very prepared”).

Response options: Not at all prepared=1 to Very prepared=6

- a. Write clearly and effectively [cgnwrite]*
- b. Speak clearly and effectively [cgnspeak]*
- c. Think critically and analytically [cgnanaly]*
- d. Analyse numerical and statistical information [cgnquant]*
- e. Work effectively with others [cgnother]*
- f. Use computing and information technology [cgncompt]*
- g. Learn effectively on your own [cgning]*

*Aggregate BUSSE Scale Perceived Academic Preparation (PER_PREP)

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19. How important is it to you that the university provides each of the following? (On a scale from 1-6, where 1 = “Not important” and 6 = “Very important”).

Response options: Not important=1 to Very important=6

- a. A challenging academic experience [cenvscho]*
- b. Support to help you succeed academically [cenvsupr]*
- c. Opportunities to interact with students from different backgrounds (social, racial/ethnic, religious, etc.) [cenvdivr]*
- d. Help managing your non-academic responsibilities (work, family, etc.) [cenvnaca]*
- e. Opportunities to be involved socially (not related to academic work) [cenvsoca]*
- f. Opportunities to attend campus events and activities [cenveven]*
- g. Learning support services (tutoring services, peer mentoring, writing centre, library, etc.) [benvlear]*

*Aggregate BUSSE Scale Importance of Campus Environment (IMP_CAMP)

20. How skilled are you in the following:

Response options: I am not skilled in this at all=1, I am struggling=2, Not that skilled but I can manage=3, Very skilled=4

- a. Using my university’s learning management system (e.g. Blackboard, Moodle, RUconnected, Vula Sakai, etc.) [Imsskill]
- b. Basic computer skills like using a mouse, typing, etc. [compskill]
- c. Microsoft Office (e.g. Word, Excel, PowerPoint) [offskill]
- d. Uploading and downloading content [upskill]
- e. Sending and receiving emails [mailskill]
- f. Using the internet for academic purposes [intskill]
- g. Effectively making use of the library’s digital resources [libskill]

21. Which of the following sources are you using to pay your educational expenses (tuition fees, books, room and board, etc.)?

Response options: Using=1, Not using=2, Not sure=3

- a. Parent/guardian’s money [cparfam]
- b. My own money [cself]
- c. Private sponsor/s (e.g. family contributors) [finprispon]
- d. Employer [finemployer]
- e. Non-governmental bursary (e.g. institutional, merit, private company) [finnongov]
- f. Governmental bursary (excluding NSFAS) [fingovbur]
- g. NSFAS [finnsfas]
- h. Loan (including institutional, banks, or private companies) [cstudlo]

22. What do you expect most of your marks to be at this university during the coming year? (Mark only one.) [cgrades]

Response options: 0-29%=1, 30-39%=2, 40-49%=3, 50-59%=4, 60-69%=5, 70-79%=6, 80-89%=7, 90-100%=8

23. Do you expect to graduate from this university? [cintgrad]

Response options: Yes=1, No=2, Uncertain=3

24. Thinking about this current academic term, how are you registered? [cenrlmen]

Response options: Full time contact=1, Full time distance=2, Part time contact=3, Part time distance=4

25. How many of your close friends will attend this university during the coming year? [cfriends]

Response options: None=1, 1=2, 2=3, 3=4, 4 or more=5

26. This institution was your: [Instchoice]

Response options: First choice=1, Second choice=2, Third choice=3, Fourth choice=4, Fifth choice or lower=5

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27. Your programme of study was your: [Progchoice]

Response options: First choice=1, Second choice=2, Third choice=3

28. What is your gender identity? [csex]

Response options: Male=1, Female=2, Another gender identity (please specify)=3, I prefer not to respond=4

- Another gender identity, please specify: [csexother]

Response option: Text box

Note: Item was only given if the respondent selected 'Another gender identity' in item 28

29. Are you an international student? [cinterna]

Response options: Yes=1, No=2

30. Indicate your race. (Mark only one.) [crace]

Response options: African=1, Coloured=2, Indian=3, Asian=4, White=5, Other=6

31. Specify which of your family members have graduated from a university before you. (Mark all that apply.)

Response options: Selected=1, Not selected=0

- None, I will be the first [bfammembergradN]
- Father (Stepfather)/Guardian [bfammembergradF]
- Mother (Stepmother)/Guardian [bfammembergradM]
- Brother (Stepbrother) [bfammembergradB]
- Sister (Stepsister) [bfammembergradS]
- Other [bfammembergradO]

[RECODED] First-generation status (neither parent has graduated from a university before you) [FGbac]

Values: Not first-generation=1, First-generation=2

32. Where do you currently attend most of your classes/sessions/discussions? [res21]

Response options: On campus=1, Some on campus and some off campus=2, Off campus=3

33. Please select the category that best represents your major field of study. (Mark only one.) [cfaculty]

Response options: Business, Commerce, and Management=1; Education=2; Human and Social Sciences=3; Science, Engineering, and Technology=4

34. Select your year of birth. [age]

Response options: 2004=1, 2003=2, 2002=3, 2001=4, 2000=5, 1999=6, 1998=7, 1997=8, 1996=9, Before 1996=10

[RECODED] Age recoded from year of birth [age_recode]

Values: 18 years=1, 19 years=2, 20 years=3, 21 years=4, 22 years=5, 23 years=6, 24 years=7, 25 and older=8

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35. Besides English, what other language(s) do you use when learning with peers or during tutorials, etc.? (Mark all that apply.)

Response options: Selected=1, Not selected=0

- Afrikaans [ctutlang1]
- IsiNdebele [ctutlang2]
- IsiXhosa [ctutlang3]
- IsiZulu [ctutlang4]
- North Sotho [ctutlang5]
- Sesotho [ctutlang6]
- Setswana [ctutlang7]
- SiSwati [ctutlang8]
- Tshivenda [ctutlang9]
- Xitsonga [ctutlang10]
- None [ctutlang11]
- Other, please specify [ctutlang12]

- Other, please specify [ctutlang12_txt]

Response options: Text box

Note: Item was only given if the respondent selected 'Other' in item 35

36. Have you been diagnosed with any disability or impairment? [disability]

Response options: Yes=1, No=2, I prefer not to respond=3

37. If Yes: Which of the following has been diagnosed? (Mark all that apply.)

Response options: Selected=1, Not selected=0

- A sensory impairment (vision or hearing) [dis_sense]
- A mobility impairment [dis_mobility]
- A learning disability (e.g. ADHD, dyslexia) [dis_learning]
- A mental health disorder [dis_mental]
- A disability or impairment not listed above [dis_other]

38. Indicate the province you were living in the year you completed matric. (Mark only one.) [province]

Response options: Eastern Cape=1, Free State=2, Gauteng=3, KwaZulu-Natal=4, Limpopo=5, Mpumalanga=6, Northern Cape=7, North West=8, Western Cape=9, Was not living in South Africa=10

39. What is your home language or mother tongue? (Mark all that apply.)

Response options: Selected=1, Not selected=0

- Afrikaans [homelang1]
- English [homelang2]
- IsiNdebele [homelang3]
- IsiXhosa [homelang4]
- IsiZulu [homelang5]
- North Sotho [homelang6]
- Sesotho [homelang7]
- Setswana [homelang8]
- SiSwati [homelang9]
- Tshivenda [homelang10]
- Xitsonga [homelang11]
- Other [homelang12]

40. On which campus are you enrolled? [campus]

Response options: Bloemfontein Campus=2201, Qwaqwa Campus=2202, South Campus=2203

41. Please select the faculty that you are registered in. [faculty]

Response options: Economic and Management Sciences=22901, Education=22902, Health Sciences=22903, Law=22904, Natural and Agricultural Sciences=22905, The Humanities=22906, Theology and Religion=22907

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42. When did you start studying at this institution? [startstud]

Response options: 2022=1, 2021=2, 2020=3, 2019=4, Before 2019=5

43. What is the highest level of education you plan to complete? [chighdeg]

Response options: Certificate=1, Diploma=2, Bachelor's degree (B.A., B.Sc., B.Tech., etc.)=3, Honours degree=4, Master's degree (M.A., M.Sc., M.Tech., etc.)=5, Doctoral degree (Ph.D., M.D., D.Tech., etc.)=6, Not enrolled for Degree purposes=7

BUSSE Scale scores are the mean of the component items after all individual item values have been converted to 0-60 point scales.

High School engagement in quantitative reasoning [HS_QR]

High School engagement in learning strategies [HS_LS]

Expected engagement in collaborative learning [EXP_CL]

Expected engagement with staff [EXP_SSI]

Expected discussions with diverse others [EXP_DD]

Expected Academic Perseverance Scale: Student certainty that they will persist in the face of academic adversity [EXP_PER]

Expected Academic Difficulty Scale: Expected academic difficulty during the first year of university [EXP_DIF]

Perceived Academic Preparation Scale: Student perception of their academic preparation [PER_PREP]

Importance of Campus Environment Scale: Student-rated importance that the institution provides a challenging and supportive environment [IMP_CAMP]