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**Ferris State University**  
*NSSE 2010 Major Field Report*  
*Part II. Comparisons to Other Institutions*  
**BIOLOGICAL SCIENCES**

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*Comparing your students majoring in BIOLOGICAL SCIENCES fields to those  
in BIOLOGICAL SCIENCES fields at your comparison groups*

*Biological Sciences includes the following major codes: 12 = Biology (general), 13 = Biochemistry or biophysics, 14 = Botany, 15 = Environmental science, 16 = Marine (life) science, 17 = Microbiology or bacteriology, 18 = Zoology, and 19 = Other biological science.*



## *Frequency Distributions*

**Ferris State University**  
*NSSE 2010 Major Field Report*  
*Part II. Comparisons to Other Institutions*  
**BIOLOGICAL SCIENCES**

## NSSE 2010 Major Field Report: Part II. Comparisons to Other Institutions

### *Interpreting the Frequency Distributions*

#### Sample

This report is based on information from all randomly selected BIOLOGICAL SCIENCES students (including those from census administrations) for both your institution and your comparison institutions. Targeted oversamples and other non-randomly selected students are not included.

#### Variable Names

The name of each variable appears in the first column for easy reference to your raw data file.

#### Variables

The items from the NSSE survey appear in the left column in the same order and wording as they appear on the instrument.

#### Benchmark

Items that comprise the five "Benchmarks of Effective Educational Practice" are indicated by the following:

- LAC:** Level of Academic Challenge
- ACL:** Active and Collaborative Learning
- SFI:** Student-Faculty Interaction
- EEE:** Enriching Educational Experiences
- SCE:** Supportive Campus Environment

#### Response Options

Response options listed just as they appear on the instrument.

#### Class

Frequency distributions are reported separately for first-year students and seniors. Institution-reported class levels are used. Of course, first-year student reports of major are likely to be unstable, and interpretations of first-year results should be made with caution.

Variable	Response Options	First-Year Students								Seniors							
		NSSEville State		Mid East Public		Carnegie Class		NSSE 2010		NSSEville State		Mid East Public		Carnegie Class		NSSE 2010	
		Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%		
1a. Asked questions in class or contributed to class discussions	CLQUEST (ACL) Never Sometimes Often Very often	0	0%	16	2%	77	2%	276	2%	0	0%	12	1%	52	1%	194	1%
		2	8%	316	30%	1,267	28%	4,875	27%	3	10%	237	17%	999	17%	3,906	17%
		10	38%	353	34%	1,686	37%	6,433	36%	8	28%	427	30%	1,826	31%	6,748	30%
		14	54%	353	34%	1,575	34%	6,374	35%	18	62%	725	52%	3,090	52%	11,787	52%
		<b>Total</b>	<b>26</b>	<b>100%</b>	<b>1,038</b>	<b>100%</b>	<b>4,605</b>	<b>100%</b>	<b>17,958</b>	<b>100%</b>	<b>29</b>	<b>100%</b>	<b>1,401</b>	<b>100%</b>	<b>5,967</b>	<b>100%</b>	<b>22,635</b>
1b. Made a class presentation	CLPRESEN (ACL) Never Sometimes Often Very often	0	0%	116	11%	468	10%	1,779	10%	0	0%	73	5%	368	6%	999	4%
		13	50%	577	56%	2,406	52%	9,542	53%	3	10%	552	39%	2,092	35%	8,512	38%
		11	42%	275	27%	1,327	29%	4,979	28%	14	48%	502	36%	2,235	37%	8,483	37%
		2	8%	69	7%	409	9%	1,682	9%	12	41%	279	20%	1,307	22%	4,689	21%
		<b>Total</b>	<b>26</b>	<b>100%</b>	<b>1,037</b>	<b>100%</b>	<b>4,610</b>	<b>100%</b>	<b>17,982</b>	<b>100%</b>	<b>29</b>	<b>100%</b>	<b>1,406</b>	<b>100%</b>	<b>6,002</b>	<b>100%</b>	<b>22,683</b>
1c. Prepared two or more drafts of a paper or assignment before turning it in	REWROPAP Never Sometimes Often Very often	1	4%	158	15%	627	14%	2,430	14%	5	17%	252	18%	949	16%	3,875	17%
		15	58%	346	33%	1,449	32%	5,911	33%	13	45%	553	39%	2,115	35%	8,571	38%
		8	31%	305	30%	1,417	31%	5,537	31%	6	21%	324	23%	1,575	26%	5,742	25%
		2	8%	224	22%	1,103	24%	4,041	23%	5	17%	280	20%	1,356	23%	4,484	20%
		<b>Total</b>	<b>26</b>	<b>100%</b>	<b>1,033</b>	<b>100%</b>	<b>4,596</b>	<b>100%</b>	<b>17,919</b>	<b>100%</b>	<b>29</b>	<b>100%</b>	<b>1,409</b>	<b>100%</b>	<b>5,995</b>	<b>100%</b>	<b>22,672</b>

#### Count

The Count column represents the actual number of students who responded to the particular option in each question.

#### Column Percentage (%)

The '%' column represents the percentage of students responding to the particular option in each question.

#### Weighting

All results displayed in this report are unweighted.

#### BETWEEN Institution Comparisons on Major Group

NSSE data serve to identify institutional strengths and weaknesses in reference to selected comparison institutions, yet institution-level comparisons may not capture important variation in student engagement that can be found within key sub-populations such as major. This report displays the frequency distributions for the BIOLOGICAL SCIENCES group at your institution and at your selected comparison institutions.

#### Major

Major classifications are based on recodes of the student-provided PRIMARY major (majrpcod). Major groups with fewer than five respondents in a given class are not reported. Comparison groups must contain at least three institutions with five or more respondents in the major group, or they are left blank.



**NSSE 2010 Major Field Report: Part II. Comparisons to Other Institutions**  
**Frequency Distributions-BIOLOGICAL SCIENCES**  
**Ferris State University**

			First-Year Students								Seniors								
			Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010		
	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
1a.	Asked questions in class or contributed to class discussions	CLQUEST (ACL)	Never	1	5%	13	2%	35	3%	397	3%	2	4%	18	3%	17	2%	333	3%
Sometimes			8	38%	254	40%	409	36%	4,777	36%	15	31%	201	30%	312	28%	3,878	30%	
Often			7	33%	236	37%	385	34%	4,618	35%	18	37%	248	37%	394	35%	4,253	33%	
Very often			5	24%	136	21%	308	27%	3,490	26%	14	29%	197	30%	401	36%	4,446	34%	
Total		21	100%	639	100%	1,137	100%	13,282	100%	49	100%	664	100%	1,124	100%	12,910	100%		
1b.	Made a class presentation	CLPRESEN (ACL)	Never	3	14%	130	20%	198	17%	2,079	16%	5	10%	61	9%	46	4%	874	7%
Sometimes			10	48%	372	58%	638	56%	7,476	56%	24	49%	324	49%	476	42%	5,618	43%	
Often			4	19%	111	17%	232	20%	2,909	22%	16	33%	221	33%	427	38%	4,485	35%	
Very often			4	19%	28	4%	66	6%	817	6%	4	8%	59	9%	179	16%	1,977	15%	
Total	21	100%	641	100%	1,134	100%	13,281	100%	49	100%	665	100%	1,128	100%	12,954	100%			
1c.	Prepared two or more drafts of a paper or assignment before turning it in	REWROPAP	Never	3	15%	60	9%	162	14%	1,762	13%	5	10%	109	16%	200	18%	2,255	17%
Sometimes			5	25%	160	25%	334	30%	4,018	30%	25	51%	248	37%	437	39%	5,050	39%	
Often			9	45%	230	36%	363	32%	4,255	32%	13	27%	195	29%	314	28%	3,469	27%	
Very often			3	15%	187	29%	271	24%	3,206	24%	6	12%	110	17%	180	16%	2,139	17%	
Total		20	100%	637	100%	1,130	100%	13,241	100%	49	100%	662	100%	1,131	100%	12,913	100%		
1d.	Worked on a paper or project that required integrating ideas or information from various sources	INTEGRAT	Never	1	5%	15	2%	24	2%	304	2%	2	4%	14	2%	6	1%	187	1%
Sometimes			5	24%	107	17%	234	21%	2,537	19%	10	20%	99	15%	120	11%	1,755	14%	
Often			10	48%	290	45%	513	45%	5,646	42%	19	39%	254	38%	465	41%	4,928	38%	
Very often			5	24%	227	36%	369	32%	4,810	36%	18	37%	299	45%	541	48%	6,085	47%	
Total		21	100%	639	100%	1,140	100%	13,297	100%	49	100%	666	100%	1,132	100%	12,955	100%		
1e.	Included diverse perspectives (different races, religions, genders, political beliefs, etc.) in class discussions or writing assignments	DIVCLASS	Never	3	14%	43	7%	96	8%	957	7%	5	10%	89	13%	122	11%	1,365	11%
Sometimes			9	43%	224	35%	387	34%	4,201	32%	27	55%	267	40%	475	42%	4,927	38%	
Often			5	24%	233	37%	417	37%	5,045	38%	13	27%	208	31%	343	30%	4,162	32%	
Very often			4	19%	135	21%	235	21%	3,084	23%	4	8%	104	16%	192	17%	2,495	19%	
Total		21	100%	635	100%	1,135	100%	13,287	100%	49	100%	668	100%	1,132	100%	12,949	100%		
1f.	Come to class without completing readings or assignments	CLUNPREP	Never	6	29%	178	28%	350	31%	3,755	28%	14	29%	142	21%	271	24%	2,684	21%
Sometimes			10	48%	373	59%	624	55%	7,476	56%	26	53%	394	60%	660	58%	7,518	58%	
Often			4	19%	57	9%	117	10%	1,440	11%	8	16%	92	14%	139	12%	1,897	15%	
Very often			1	5%	29	5%	44	4%	618	5%	1	2%	34	5%	60	5%	856	7%	
Total		21	100%	637	100%	1,135	100%	13,289	100%	49	100%	662	100%	1,130	100%	12,955	100%		
1g.	Worked with other students on projects during class	CLASSGRP (ACL)	Never	5	24%	55	9%	147	13%	1,817	14%	4	8%	77	12%	139	12%	1,713	13%
Sometimes			9	43%	275	43%	494	43%	5,708	43%	23	47%	292	44%	548	48%	6,039	47%	
Often			6	29%	226	35%	366	32%	4,202	32%	19	39%	223	33%	333	29%	3,728	29%	
Very often			1	5%	86	13%	133	12%	1,584	12%	3	6%	76	11%	113	10%	1,474	11%	
Total		21	100%	642	100%	1,140	100%	13,311	100%	49	100%	668	100%	1,133	100%	12,954	100%		



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**Ferris State University**

			First-Year Students								Seniors								
			Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010		
	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
1h.	Worked with classmates outside of class to prepare class assignments	OCCGRP	Never	1	5%	84	13%	88	8%	1,161	9%	6	12%	49	7%	55	5%	732	6%
		(ACL)	Sometimes	12	57%	277	43%	414	36%	5,105	38%	22	45%	282	42%	374	33%	4,662	36%
			Often	3	14%	200	31%	416	36%	4,715	35%	16	33%	245	37%	438	39%	4,884	38%
			Very often	5	24%	82	13%	223	20%	2,360	18%	5	10%	93	14%	266	23%	2,718	21%
			Total	21	100%	643	100%	1,141	100%	13,341	100%	49	100%	669	100%	1,133	100%	12,996	100%
1i.	Put together ideas or concepts from different courses when completing assignments or during class discussions	INTIDEAS	Never	1	5%	33	5%	64	6%	744	6%	1	2%	23	3%	33	3%	391	3%
			Sometimes	11	52%	275	43%	458	40%	5,057	38%	12	24%	190	29%	334	30%	3,642	28%
			Often	6	29%	247	39%	456	40%	5,308	40%	25	51%	297	45%	505	45%	5,610	43%
			Very often	3	14%	83	13%	158	14%	2,172	16%	11	22%	154	23%	259	23%	3,292	25%
			Total	21	100%	638	100%	1,136	100%	13,281	100%	49	100%	664	100%	1,131	100%	12,935	100%
1j.	Tutored or taught other students (paid or voluntary)	TUTOR	Never	11	52%	358	56%	477	42%	5,703	43%	22	45%	231	35%	360	32%	4,063	31%
		(ACL)	Sometimes	10	48%	191	30%	429	38%	4,946	37%	20	41%	268	40%	426	38%	4,883	38%
			Often	0	0%	65	10%	146	13%	1,766	13%	4	8%	92	14%	181	16%	2,106	16%
			Very often	0	0%	27	4%	85	7%	903	7%	3	6%	78	12%	163	14%	1,899	15%
			Total	21	100%	641	100%	1,137	100%	13,318	100%	49	100%	669	100%	1,130	100%	12,951	100%
1k.	Participated in a community-based project (e.g. service learning) as part of a regular course	COMMPROJ	Never	11	55%	438	68%	630	56%	7,535	57%	32	67%	413	62%	576	51%	6,925	54%
		(ACL)	Sometimes	6	30%	139	22%	332	29%	3,736	28%	12	25%	176	27%	352	31%	3,911	30%
			Often	2	10%	47	7%	119	11%	1,367	10%	3	6%	59	9%	135	12%	1,318	10%
			Very often	1	5%	19	3%	50	4%	610	5%	1	2%	16	2%	62	6%	746	6%
			Total	20	100%	643	100%	1,131	100%	13,248	100%	48	100%	664	100%	1,125	100%	12,900	100%
1l.	Used an electronic medium (listserv, chat group, Internet, instant messaging, etc.) to discuss or complete an assignment	ITACADEM	Never	2	10%	106	16%	190	17%	1,992	15%	6	12%	94	14%	161	14%	1,588	12%
		(EEE)	Sometimes	11	52%	207	32%	322	28%	3,860	29%	17	35%	200	30%	313	28%	3,785	29%
			Often	5	24%	182	28%	310	27%	3,772	28%	11	22%	180	27%	304	27%	3,537	27%
			Very often	3	14%	149	23%	315	28%	3,714	28%	15	31%	194	29%	352	31%	4,055	31%
			Total	21	100%	644	100%	1,137	100%	13,338	100%	49	100%	668	100%	1,130	100%	12,965	100%
1m.	Used e-mail to communicate with an instructor	EMAIL	Never	0	0%	5	1%	6	1%	114	1%	0	0%	3	0%	6	1%	52	0%
			Sometimes	2	10%	136	21%	208	18%	2,294	17%	13	27%	89	13%	116	10%	1,483	11%
			Often	11	52%	234	36%	389	34%	4,704	35%	16	33%	229	34%	360	32%	3,945	30%
			Very often	8	38%	267	42%	536	47%	6,216	47%	20	41%	346	52%	647	57%	7,465	58%
			Total	21	100%	642	100%	1,139	100%	13,328	100%	49	100%	667	100%	1,129	100%	12,945	100%
1n.	Discussed grades or assignments with an instructor	FACGRADE	Never	0	0%	44	7%	76	7%	934	7%	1	2%	25	4%	37	3%	557	4%
		(SFI)	Sometimes	6	29%	258	40%	415	37%	5,192	39%	17	35%	254	38%	363	32%	4,487	35%
			Often	8	38%	221	34%	402	35%	4,371	33%	23	47%	224	33%	409	36%	4,378	34%
			Very often	7	33%	119	19%	243	21%	2,813	21%	8	16%	166	25%	322	28%	3,534	27%
			Total	21	100%	642	100%	1,136	100%	13,310	100%	49	100%	669	100%	1,131	100%	12,956	100%



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**Ferris State University**

			First-Year Students								Seniors								
			Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010		
	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
1o.	Talked about career plans with a faculty member or advisor	FACPLANS (SFI)	Never	0	0%	118	18%	168	15%	2,264	17%	7	14%	92	14%	99	9%	1,413	11%
			Sometimes	12	57%	283	44%	549	48%	6,224	47%	16	33%	267	40%	414	37%	5,144	40%
			Often	4	19%	170	27%	291	26%	3,208	24%	14	29%	197	30%	341	30%	3,645	28%
			Very often	5	24%	70	11%	130	11%	1,633	12%	12	24%	110	17%	272	24%	2,748	21%
			Total	21	100%	641	100%	1,138	100%	13,329	100%	49	100%	666	100%	1,126	100%	12,950	100%
1p.	Discussed ideas from your readings or classes with faculty members outside of class	FACIDEAS (SFI)	Never	7	33%	271	42%	454	40%	5,117	38%	17	35%	183	27%	247	22%	3,250	25%
			Sometimes	8	38%	244	38%	433	38%	5,185	39%	21	43%	302	45%	517	46%	5,893	45%
			Often	3	14%	99	15%	177	16%	2,077	16%	9	18%	128	19%	240	21%	2,460	19%
			Very often	3	14%	31	5%	72	6%	950	7%	2	4%	55	8%	127	11%	1,364	11%
			Total	21	100%	645	100%	1,136	100%	13,329	100%	49	100%	668	100%	1,131	100%	12,967	100%
1q.	Received prompt written or oral feedback from faculty on your academic performance	FACFEED (SFI)	Never	1	5%	44	7%	73	6%	872	7%	1	2%	40	6%	36	3%	699	5%
			Sometimes	8	38%	241	37%	355	31%	4,541	34%	13	27%	214	32%	315	28%	4,018	31%
			Often	10	48%	255	40%	506	44%	5,420	41%	32	65%	307	46%	552	49%	5,795	45%
			Very often	2	10%	103	16%	204	18%	2,496	19%	3	6%	106	16%	228	20%	2,457	19%
			Total	21	100%	643	100%	1,138	100%	13,329	100%	49	100%	667	100%	1,131	100%	12,969	100%
1r.	Worked harder than you thought you could to meet an instructor's standards or expectations	WORKHARD (LAC)	Never	1	5%	45	7%	54	5%	754	6%	1	2%	45	7%	57	5%	813	6%
			Sometimes	9	43%	226	35%	356	31%	4,262	32%	19	39%	238	36%	349	31%	4,258	33%
			Often	7	33%	242	38%	474	42%	5,371	40%	20	41%	255	38%	469	42%	5,068	39%
			Very often	4	19%	124	19%	250	22%	2,910	22%	9	18%	129	19%	251	22%	2,813	22%
			Total	21	100%	637	100%	1,134	100%	13,297	100%	49	100%	667	100%	1,126	100%	12,952	100%
1s.	Worked with faculty members on activities other than coursework (committees, orientation, student life activities, etc.)	FACOTHER (SFI)	Never	10	48%	421	66%	624	55%	7,082	53%	21	43%	306	46%	388	35%	4,911	38%
			Sometimes	6	29%	139	22%	337	30%	4,007	30%	17	35%	207	31%	383	34%	4,428	34%
			Often	4	19%	57	9%	130	11%	1,554	12%	8	16%	89	13%	215	19%	2,171	17%
			Very often	1	5%	21	3%	41	4%	613	5%	3	6%	65	10%	137	12%	1,421	11%
			Total	21	100%	638	100%	1,132	100%	13,256	100%	49	100%	667	100%	1,123	100%	12,931	100%
1t.	Discussed ideas from your readings or classes with others outside of class (students, family members, co-workers, etc.)	OOCIDEAS (ACL)	Never	0	0%	34	5%	48	4%	628	5%	2	4%	20	3%	42	4%	400	3%
			Sometimes	8	38%	204	32%	355	31%	4,231	32%	17	35%	211	32%	328	29%	3,657	28%
			Often	8	38%	248	39%	436	38%	5,053	38%	18	37%	248	37%	423	38%	4,972	38%
			Very often	5	24%	158	25%	299	26%	3,400	26%	12	24%	188	28%	331	29%	3,918	30%
			Total	21	100%	644	100%	1,138	100%	13,312	100%	49	100%	667	100%	1,124	100%	12,947	100%
1u.	Had serious conversations with students of a different race or ethnicity than your own	DIVRSTUD (EEE)	Never	7	33%	117	18%	183	16%	1,732	13%	12	24%	92	14%	149	13%	1,465	11%
			Sometimes	5	24%	225	35%	371	33%	4,207	32%	18	37%	231	35%	400	35%	4,161	32%
			Often	4	19%	151	23%	288	25%	3,629	27%	7	14%	194	29%	310	27%	3,628	28%
			Very often	5	24%	151	23%	299	26%	3,765	28%	12	24%	149	22%	272	24%	3,717	29%
			Total	21	100%	644	100%	1,141	100%	13,333	100%	49	100%	666	100%	1,131	100%	12,971	100%



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**Frequency Distributions-BIOLOGICAL SCIENCES**  
**Ferris State University**

			First-Year Students								Seniors								
			Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010		
	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
1v.	Had serious conversations with students who are very different from you in terms of their religious beliefs, political opinions, or personal values	DIFFSTU2 (EEE)	Never	5	24%	64	10%	112	10%	1,278	10%	7	14%	61	9%	93	8%	1,056	8%
			Sometimes	6	29%	223	35%	346	30%	4,001	30%	16	33%	235	35%	401	36%	4,160	32%
			Often	5	24%	198	31%	364	32%	4,097	31%	14	29%	214	32%	351	31%	3,955	30%
			Very often	5	24%	157	24%	313	28%	3,953	30%	12	24%	158	24%	282	25%	3,810	29%
			Total	21	100%	642	100%	1,135	100%	13,329	100%	49	100%	668	100%	1,127	100%	12,981	100%
2a.	Coursework emphasizes: <b>Memorizing</b> facts, ideas, or methods from your courses and readings	MEMORIZE	Very little	2	10%	19	3%	25	2%	444	3%	1	2%	16	2%	33	3%	402	3%
			Some	3	14%	120	19%	177	16%	2,544	19%	8	16%	116	17%	219	19%	2,346	18%
			Quite a bit	10	48%	269	42%	465	41%	5,332	40%	20	41%	263	39%	412	36%	4,777	37%
			Very much	6	29%	235	37%	474	42%	5,016	38%	20	41%	274	41%	472	42%	5,454	42%
			Total	21	100%	643	100%	1,141	100%	13,336	100%	49	100%	669	100%	1,136	100%	12,979	100%
2b.	Coursework emphasizes: <b>Analyzing</b> the basic elements of an idea, experience, or theory	ANALYZE (LAC)	Very little	1	5%	5	1%	13	1%	169	1%	1	2%	12	2%	13	1%	143	1%
			Some	3	15%	93	15%	147	13%	1,738	13%	10	20%	85	13%	120	11%	1,437	11%
			Quite a bit	11	55%	295	46%	476	42%	5,525	42%	21	43%	312	47%	463	41%	5,212	40%
			Very much	5	25%	245	38%	498	44%	5,852	44%	17	35%	261	39%	532	47%	6,142	47%
			Total	20	100%	638	100%	1,134	100%	13,284	100%	49	100%	670	100%	1,128	100%	12,934	100%
2c.	Coursework emphasizes: <b>Synthesizing</b> and organizing ideas, information, or experiences	SYNTHESZ (LAC)	Very little	1	5%	21	3%	34	3%	379	3%	7	15%	25	4%	26	2%	369	3%
			Some	6	29%	155	24%	264	23%	2,809	21%	10	21%	153	23%	214	19%	2,396	19%
			Quite a bit	12	57%	276	43%	461	41%	5,423	41%	23	48%	276	41%	442	39%	5,061	39%
			Very much	2	10%	183	29%	371	33%	4,674	35%	8	17%	213	32%	450	40%	5,106	39%
			Total	21	100%	635	100%	1,130	100%	13,285	100%	48	100%	667	100%	1,132	100%	12,932	100%
2d.	Coursework emphasizes: <b>Making judgments</b> about the value of information, arguments, or methods	EVALUATE (LAC)	Very little	1	5%	32	5%	50	4%	541	4%	2	4%	43	6%	56	5%	675	5%
			Some	6	29%	167	26%	297	26%	3,164	24%	18	37%	154	23%	263	23%	3,051	24%
			Quite a bit	7	33%	260	41%	454	40%	5,476	41%	18	37%	294	44%	429	38%	5,030	39%
			Very much	7	33%	180	28%	336	30%	4,129	31%	11	22%	178	27%	381	34%	4,199	32%
			Total	21	100%	639	100%	1,137	100%	13,310	100%	49	100%	669	100%	1,129	100%	12,955	100%
2e.	Coursework emphasizes: <b>Applying</b> theories or concepts to practical problems or in new situations	APPLYING (LAC)	Very little	0	0%	16	3%	33	3%	324	2%	2	4%	24	4%	26	2%	348	3%
			Some	4	19%	119	19%	190	17%	2,227	17%	7	14%	113	17%	168	15%	2,019	16%
			Quite a bit	9	43%	243	38%	418	37%	4,938	37%	23	47%	255	38%	402	36%	4,790	37%
			Very much	8	38%	261	41%	495	44%	5,828	44%	17	35%	274	41%	535	47%	5,809	45%
			Total	21	100%	639	100%	1,136	100%	13,317	100%	49	100%	666	100%	1,131	100%	12,966	100%
3a.	Number of assigned textbooks, books, or book-length packs of course readings	READASGN (LAC)	None	1	5%	13	2%	9	1%	150	1%	1	2%	16	2%	17	1%	174	1%
			1-4	6	29%	124	19%	208	18%	2,226	17%	13	27%	208	31%	287	25%	3,185	25%
			5-10	6	29%	283	44%	510	45%	5,491	41%	26	53%	265	40%	494	44%	5,227	40%
			11-20	5	24%	139	22%	253	22%	3,484	26%	2	4%	107	16%	208	18%	2,619	20%
			More than 20	3	14%	86	13%	158	14%	1,989	15%	7	14%	72	11%	128	11%	1,777	14%
			Total	21	100%	645	100%	1,138	100%	13,340	100%	49	100%	668	100%	1,134	100%	12,982	100%



**NSSE 2010 Major Field Report: Part II. Comparisons to Other Institutions**  
**Frequency Distributions-BIOLOGICAL SCIENCES**  
**Ferris State University**

**First-Year Students**

**Seniors**

	Variable	Response Options	First-Year Students				Seniors					
			Ferris State	Selected Peers	Carnegie Class	NSSE 2010	Ferris State	Selected Peers	Carnegie Class	NSSE 2010		
			Count	%	Count	%	Count	%	Count	%	Count	%
3b. Number of books read on your own (not assigned) for personal enjoyment or academic enrichment	READOWN	None	4	19%	150	23%	271	24%	3,271	25%	9	18%
		1-4	11	52%	336	52%	627	55%	7,272	55%	19	39%
		5-10	4	19%	98	15%	152	13%	1,806	14%	8	16%
		11-20	1	5%	29	5%	46	4%	533	4%	7	14%
		More than 20	1	5%	28	4%	43	4%	449	3%	6	12%
	Total			21	100%	641	100%	1,139	100%	13,331	100%	49
3c. Number of written papers or reports of <b>20 pages or more</b>	WRITEMOR (LAC)	None	20	95%	558	87%	946	83%	10,962	82%	30	61%
		1-4	1	5%	70	11%	140	12%	1,703	13%	16	33%
		5-10	0	0%	10	2%	34	3%	381	3%	2	4%
		11-20	0	0%	3	0%	9	1%	159	1%	0	0%
		More than 20	0	0%	3	0%	9	1%	110	1%	1	2%
	Total			21	100%	644	100%	1,138	100%	13,315	100%	49
3d. Number of written papers or reports <b>between 5 and 19 pages</b>	WRITEMID (LAC)	None	8	38%	75	12%	179	16%	1,757	13%	11	22%
		1-4	11	52%	382	60%	635	56%	7,054	53%	27	55%
		5-10	1	5%	151	24%	251	22%	3,427	26%	7	14%
		11-20	1	5%	27	4%	63	6%	896	7%	2	4%
		More than 20	0	0%	3	0%	11	1%	182	1%	2	4%
	Total			21	100%	638	100%	1,139	100%	13,316	100%	49
3e. Number of written papers or reports of <b>fewer than 5 pages</b>	WRITESML (LAC)	None	1	5%	15	2%	28	2%	356	3%	2	4%
		1-4	6	29%	230	36%	400	35%	4,174	31%	12	24%
		5-10	11	52%	240	37%	364	32%	4,668	35%	27	55%
		11-20	1	5%	111	17%	231	20%	2,694	20%	7	14%
		More than 20	2	10%	47	7%	114	10%	1,449	11%	1	2%
	Total			21	100%	643	100%	1,137	100%	13,341	100%	49
4a. Number of problem sets that take you <b>more</b> than an hour to complete	PROBSETA	None	3	14%	50	8%	68	6%	980	7%	6	13%
		1-2	6	29%	229	36%	370	33%	4,429	33%	26	54%
		3-4	7	33%	225	35%	379	33%	4,462	33%	8	17%
		5-6	3	14%	60	9%	147	13%	1,605	12%	3	6%
		More than 6	2	10%	80	12%	174	15%	1,858	14%	5	10%
	Total			21	100%	644	100%	1,138	100%	13,334	100%	48
4b. Number of problem sets that take you <b>less</b> than an hour to complete	PROBSETB	None	2	10%	44	7%	112	10%	1,593	12%	11	22%
		1-2	8	38%	230	36%	419	37%	4,897	37%	18	37%
		3-4	5	24%	162	25%	290	25%	3,317	25%	11	22%
		5-6	2	10%	83	13%	141	12%	1,509	11%	6	12%
		More than 6	4	19%	123	19%	177	16%	2,001	15%	3	6%
	Total			21	100%	642	100%	1,139	100%	13,317	100%	49





**NSSE 2010 Major Field Report: Part II. Comparisons to Other Institutions**  
**Frequency Distributions-BIOLOGICAL SCIENCES**  
**Ferris State University**

			First-Year Students								Seniors									
			Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010			
	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%		
5.	Select the circle that best represents the extent to which your examinations during the current school year challenged you to do your best work	EXAMS	1	Very little	0	0%	0	0%	3	0%	44	0%	0	0%	1	0%	2	0%	70	1%
			2		0	0%	4	1%	10	1%	95	1%	1	2%	9	1%	9	1%	141	1%
			3		0	0%	15	2%	20	2%	256	2%	1	2%	15	2%	25	2%	310	2%
			4		3	14%	64	10%	91	8%	1,054	8%	2	4%	56	8%	86	8%	1,025	8%
			5		5	24%	169	26%	238	21%	3,270	24%	20	41%	150	22%	263	23%	3,072	24%
			6		11	52%	255	40%	485	42%	5,205	39%	20	41%	254	38%	443	39%	4,921	38%
			7	Very much	2	10%	138	21%	296	26%	3,444	26%	5	10%	183	27%	305	27%	3,455	27%
		Total	21	100%	645	100%	1,143	100%	13,368	100%	49	100%	668	100%	1,133	100%	12,994	100%		
6a.	Attended an art exhibit, play, dance, music, theater, or other performance	ATDART07	Never	1	5%	195	31%	251	22%	2,866	22%	13	27%	239	36%	295	26%	3,516	27%	
			Sometimes	7	33%	292	46%	555	49%	6,367	48%	26	53%	321	48%	552	49%	6,283	49%	
			Often	8	38%	114	18%	237	21%	2,749	21%	7	14%	82	12%	169	15%	2,094	16%	
			Very often	5	24%	38	6%	94	8%	1,276	10%	3	6%	26	4%	111	10%	999	8%	
		Total	21	100%	639	100%	1,137	100%	13,258	100%	49	100%	668	100%	1,127	100%	12,892	100%		
6b.	Exercised or participated in physical fitness activities	EXRCSE05	Never	1	5%	86	14%	113	10%	1,221	9%	6	12%	76	11%	96	9%	1,186	9%	
			Sometimes	7	33%	169	27%	291	26%	3,510	26%	10	20%	179	27%	316	28%	3,766	29%	
			Often	3	14%	158	25%	268	24%	3,385	25%	14	29%	192	29%	282	25%	3,378	26%	
			Very often	10	48%	224	35%	464	41%	5,194	39%	19	39%	222	33%	435	39%	4,644	36%	
		Total	21	100%	637	100%	1,136	100%	13,310	100%	49	100%	669	100%	1,129	100%	12,974	100%		
6c.	Participated in activities to enhance your spirituality (worship, meditation, prayer, etc.)	WORSHPO5	Never	11	52%	322	50%	426	38%	5,250	39%	18	37%	302	45%	416	37%	5,150	40%	
			Sometimes	7	33%	152	24%	337	30%	3,771	28%	14	29%	176	26%	328	29%	3,524	27%	
			Often	1	5%	84	13%	192	17%	2,004	15%	10	20%	85	13%	181	16%	1,806	14%	
			Very often	2	10%	81	13%	179	16%	2,273	17%	7	14%	103	15%	202	18%	2,471	19%	
		Total	21	100%	639	100%	1,134	100%	13,298	100%	49	100%	666	100%	1,127	100%	12,951	100%		
6d.	Examined the strengths and weaknesses of your own views on a topic or issue	OWNVIEW	Never	5	24%	79	12%	110	10%	1,220	9%	4	9%	78	12%	91	8%	1,078	8%	
			Sometimes	7	33%	230	36%	435	38%	4,938	37%	24	51%	259	39%	429	38%	4,638	36%	
			Often	4	19%	237	37%	385	34%	4,680	35%	15	32%	218	33%	395	35%	4,594	36%	
			Very often	5	24%	96	15%	202	18%	2,445	18%	4	9%	113	17%	214	19%	2,630	20%	
		Total	21	100%	642	100%	1,132	100%	13,283	100%	47	100%	668	100%	1,129	100%	12,940	100%		
6e.	Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	OTHRVIEW	Never	3	14%	55	9%	60	5%	662	5%	4	8%	32	5%	53	5%	628	5%	
			Sometimes	5	24%	186	29%	374	33%	4,250	32%	20	41%	226	34%	389	34%	4,022	31%	
			Often	8	38%	254	40%	459	40%	5,190	39%	16	33%	266	40%	425	38%	5,077	39%	
			Very often	5	24%	144	23%	247	22%	3,207	24%	9	18%	143	21%	263	23%	3,231	25%	
		Total	21	100%	639	100%	1,140	100%	13,309	100%	49	100%	667	100%	1,130	100%	12,958	100%		
6f.	Learned something that changed the way you understand an issue or concept	CHNGVIEW	Never	1	5%	21	3%	29	3%	391	3%	0	0%	24	4%	35	3%	350	3%	
			Sometimes	6	29%	201	32%	356	31%	3,838	29%	23	47%	235	35%	353	31%	3,812	29%	
			Often	7	33%	260	41%	451	40%	5,389	40%	19	39%	248	37%	465	41%	5,273	41%	
			Very often	7	33%	156	24%	301	26%	3,711	28%	7	14%	161	24%	279	25%	3,541	27%	
		Total	21	100%	638	100%	1,137	100%	13,329	100%	49	100%	668	100%	1,132	100%	12,976	100%		



**NSSE 2010 Major Field Report: Part II. Comparisons to Other Institutions**  
**Frequency Distributions-BIOLOGICAL SCIENCES**  
**Ferris State University**

			First-Year Students								Seniors								
			Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010		
	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
7a.	Practicum, internship, field experience, co-op experience, or clinical assignment	INTERN04 (EEE)	Have not decided	4	19%	77	12%	105	9%	1,172	9%	8	16%	67	10%	84	7%	937	7%
Do not plan to do			0	0%	16	2%	19	2%	227	2%	8	16%	117	18%	163	14%	1,616	12%	
Plan to do			14	67%	513	80%	947	83%	11,037	83%	18	37%	197	29%	274	24%	3,169	24%	
Done			3	14%	35	5%	66	6%	878	7%	15	31%	287	43%	610	54%	7,256	56%	
Total		21	100%	641	100%	1,137	100%	13,314	100%	49	100%	668	100%	1,131	100%	12,978	100%		
7b.	Community service or volunteer work	VOLNTR04 (EEE)	Have not decided	2	10%	79	12%	82	7%	907	7%	4	8%	69	10%	55	5%	699	5%
Do not plan to do			0	0%	40	6%	35	3%	362	3%	9	18%	63	10%	92	8%	988	8%	
Plan to do			9	43%	286	45%	484	43%	5,606	42%	11	22%	103	16%	114	10%	1,621	13%	
Done			10	48%	235	37%	533	47%	6,409	48%	25	51%	427	65%	866	77%	9,612	74%	
Total	21	100%	640	100%	1,134	100%	13,284	100%	49	100%	662	100%	1,127	100%	12,920	100%			
7c.	Participate in a learning community or some other formal program where groups of students take two or more classes together	LRNCOM04 (EEE)	Have not decided	12	60%	248	39%	352	31%	4,284	32%	7	15%	98	15%	153	14%	1,770	14%
Do not plan to do			3	15%	144	23%	253	22%	3,014	23%	29	60%	353	54%	614	55%	6,924	54%	
Plan to do			3	15%	148	23%	317	28%	3,571	27%	4	8%	63	10%	64	6%	867	7%	
Done			2	10%	96	15%	206	18%	2,383	18%	8	17%	140	21%	295	26%	3,315	26%	
Total	20	100%	636	100%	1,128	100%	13,252	100%	48	100%	654	100%	1,126	100%	12,876	100%			
7d.	Work on a research project with a faculty member outside of course or program requirements	RESRCH04 (SFI)	Have not decided	10	48%	200	31%	309	27%	3,823	29%	13	27%	97	15%	141	12%	1,590	12%
Do not plan to do			5	24%	84	13%	124	11%	1,405	11%	28	57%	194	29%	356	32%	3,926	30%	
Plan to do			6	29%	319	50%	641	56%	7,296	55%	3	6%	137	21%	171	15%	2,088	16%	
Done			0	0%	33	5%	62	5%	748	6%	5	10%	238	36%	461	41%	5,349	41%	
Total	21	100%	636	100%	1,136	100%	13,272	100%	49	100%	666	100%	1,129	100%	12,953	100%			
7e.	Foreign language coursework	FORLNG04 (EEE)	Have not decided	4	19%	113	18%	175	15%	2,051	15%	3	6%	45	7%	71	6%	753	6%
Do not plan to do			4	19%	211	33%	238	21%	2,666	20%	17	35%	296	44%	371	33%	4,192	32%	
Plan to do			9	43%	201	31%	436	38%	5,044	38%	4	8%	42	6%	75	7%	796	6%	
Done			4	19%	116	18%	290	25%	3,570	27%	25	51%	285	43%	616	54%	7,243	56%	
Total	21	100%	641	100%	1,139	100%	13,331	100%	49	100%	668	100%	1,133	100%	12,984	100%			
7f.	Study abroad	STDABR04 (EEE)	Have not decided	4	19%	198	31%	347	31%	3,730	28%	6	12%	88	13%	125	11%	1,543	12%
Do not plan to do			6	29%	165	26%	232	20%	2,648	20%	29	59%	447	67%	714	63%	7,745	60%	
Plan to do			11	52%	264	41%	534	47%	6,601	50%	6	12%	50	8%	105	9%	1,231	10%	
Done			0	0%	12	2%	23	2%	300	2%	8	16%	80	12%	186	16%	2,415	19%	
Total	21	100%	639	100%	1,136	100%	13,279	100%	49	100%	665	100%	1,130	100%	12,934	100%			
7g.	Independent study or self-designed major	INDSTD04 (EEE)	Have not decided	8	38%	221	35%	355	31%	4,344	33%	6	12%	78	12%	126	11%	1,334	10%
Do not plan to do			12	57%	317	50%	556	49%	6,211	47%	34	69%	406	61%	669	59%	7,789	60%	
Plan to do			1	5%	81	13%	195	17%	2,308	17%	3	6%	62	9%	77	7%	937	7%	
Done			0	0%	20	3%	30	3%	398	3%	6	12%	121	18%	255	23%	2,844	22%	
Total	21	100%	639	100%	1,136	100%	13,261	100%	49	100%	667	100%	1,127	100%	12,904	100%			



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**Frequency Distributions-BIOLOGICAL SCIENCES**  
**Ferris State University**

			First-Year Students								Seniors								
			Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010		
	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
7h.	Culminating senior experience (capstone course, senior project or thesis, comprehensive exam, etc.)	SNRX04 (EEE)	Have not decided	13	62%	259	40%	375	33%	4,478	34%	7	14%	62	9%	99	9%	1,209	9%
			Do not plan to do	1	5%	61	10%	93	8%	1,054	8%	7	14%	137	21%	272	24%	3,208	25%
			Plan to do	7	33%	315	49%	654	57%	7,556	57%	19	39%	194	29%	336	30%	3,733	29%
			Done	0	0%	7	1%	17	1%	223	2%	16	33%	275	41%	425	38%	4,826	37%
			Total	21	100%	642	100%	1,139	100%	13,311	100%	49	100%	668	100%	1,132	100%	12,976	100%
8a.	Quality of relationships with other students	ENVSTU (SCE)	1 Unfriendly, Unsupportive, Sense of alienation	0	0%	8	1%	9	1%	105	1%	0	0%	6	1%	5	0%	104	1%
			2	0	0%	16	2%	22	2%	293	2%	0	0%	14	2%	16	1%	263	2%
			3	1	5%	28	4%	48	4%	557	4%	4	8%	31	5%	37	3%	493	4%
			4	4	19%	84	13%	138	12%	1,496	11%	4	8%	73	11%	103	9%	1,325	10%
			5	5	24%	168	26%	246	22%	2,801	21%	16	33%	166	25%	213	19%	2,736	21%
			6	8	38%	184	29%	351	31%	4,340	32%	19	39%	219	33%	383	34%	4,197	32%
			7 Friendly, Supportive, Sense of belonging	3	14%	155	24%	326	29%	3,765	28%	6	12%	158	24%	377	33%	3,867	30%
			Total	21	100%	643	100%	1,140	100%	13,357	100%	49	100%	667	100%	1,134	100%	12,985	100%
8b.	Quality of relationships with faculty members	ENVFAC (SCE)	1 Unavailable, Unhelpful, Unsympathetic	0	0%	3	0%	10	1%	80	1%	0	0%	8	1%	10	1%	134	1%
			2	0	0%	17	3%	24	2%	267	2%	2	4%	11	2%	18	2%	299	2%
			3	0	0%	29	5%	42	4%	648	5%	1	2%	42	6%	45	4%	596	5%
			4	5	24%	101	16%	158	14%	2,004	15%	6	12%	95	14%	119	11%	1,611	12%
			5	7	33%	172	27%	319	28%	3,460	26%	15	31%	171	26%	213	19%	3,038	23%
			6	7	33%	207	32%	367	32%	4,335	32%	19	39%	213	32%	414	37%	4,291	33%
			7 Available, Helpful, Sympathetic	2	10%	114	18%	219	19%	2,559	19%	6	12%	129	19%	313	28%	3,025	23%
			Total	21	100%	643	100%	1,139	100%	13,353	100%	49	100%	669	100%	1,132	100%	12,994	100%
8c.	Quality of relationships with administrative personnel and offices	ENVADM (SCE)	1 Unhelpful, Inconsiderate, Rigid	0	0%	12	2%	28	2%	305	2%	3	6%	31	5%	39	3%	625	5%
			2	0	0%	31	5%	49	4%	606	5%	6	12%	47	7%	83	7%	982	8%
			3	3	14%	52	8%	101	9%	1,190	9%	9	18%	82	12%	131	12%	1,447	11%
			4	7	33%	140	22%	247	22%	2,977	22%	8	16%	147	22%	231	20%	2,790	21%
			5	4	19%	145	23%	270	24%	3,242	24%	7	14%	152	23%	290	26%	2,989	23%
			6	6	29%	159	25%	260	23%	3,040	23%	11	22%	129	19%	196	17%	2,498	19%
			7 Helpful, Considerate, Flexible	1	5%	103	16%	182	16%	1,986	15%	5	10%	81	12%	164	14%	1,655	13%
			Total	21	100%	642	100%	1,137	100%	13,346	100%	49	100%	669	100%	1,134	100%	12,986	100%



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**Frequency Distributions-BIOLOGICAL SCIENCES**  
**Ferris State University**

			First-Year Students								Seniors								
	Variable	Response Options	Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010		
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
9a.	Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)	ACADPR01 (LAC)	0 hr/wk	0	0%	2	0%	4	0%	32	0%	0	0%	1	0%	1	0%	17	0%
			1-5 hr/wk	3	14%	65	10%	85	7%	1,099	8%	4	8%	71	11%	96	8%	1,190	9%
			6-10 hr/wk	8	38%	140	22%	209	18%	2,499	19%	13	27%	134	20%	235	21%	2,557	20%
			11-15 hr/wk	6	29%	139	22%	230	20%	2,750	21%	13	27%	134	20%	235	21%	2,601	20%
			16-20 hr/wk	2	10%	140	22%	244	21%	2,693	20%	7	14%	114	17%	230	20%	2,471	19%
			21-25 hr/wk	2	10%	84	13%	173	15%	1,956	15%	6	12%	89	13%	129	11%	1,681	13%
			26-30 hr/wk	0	0%	38	6%	97	9%	1,172	9%	2	4%	59	9%	89	8%	1,089	8%
			30+ hr/wk	0	0%	34	5%	94	8%	1,125	8%	4	8%	64	10%	116	10%	1,372	11%
			<b>Total</b>	<b>21</b>	<b>100%</b>	<b>642</b>	<b>100%</b>	<b>1,136</b>	<b>100%</b>	<b>13,326</b>	<b>100%</b>	<b>49</b>	<b>100%</b>	<b>666</b>	<b>100%</b>	<b>1,131</b>	<b>100%</b>	<b>12,978</b>	<b>100%</b>
9b.	Working for pay <b>on campus</b>	WORKON01	0 hr/wk	15	71%	558	87%	920	81%	10,384	78%	29	59%	461	69%	696	61%	7,777	60%
			1-5 hr/wk	0	0%	17	3%	45	4%	693	5%	4	8%	32	5%	107	9%	975	8%
			6-10 hr/wk	2	10%	24	4%	85	7%	1,161	9%	2	4%	51	8%	139	12%	1,674	13%
			11-15 hr/wk	1	5%	26	4%	45	4%	619	5%	4	8%	54	8%	98	9%	1,187	9%
			16-20 hr/wk	2	10%	14	2%	30	3%	331	2%	6	12%	48	7%	74	7%	915	7%
			21-25 hr/wk	1	5%	1	0%	6	1%	65	0%	2	4%	10	2%	8	1%	218	2%
			26-30 hr/wk	0	0%	1	0%	2	0%	33	0%	0	0%	5	1%	2	0%	88	1%
			30+ hr/wk	0	0%	0	0%	3	0%	38	0%	2	4%	5	1%	9	1%	126	1%
			<b>Total</b>	<b>21</b>	<b>100%</b>	<b>641</b>	<b>100%</b>	<b>1,136</b>	<b>100%</b>	<b>13,324</b>	<b>100%</b>	<b>49</b>	<b>100%</b>	<b>666</b>	<b>100%</b>	<b>1,133</b>	<b>100%</b>	<b>12,960</b>	<b>100%</b>
9c.	Working for pay <b>off campus</b>	WORKOF01	0 hr/wk	15	71%	435	68%	860	76%	10,290	77%	33	67%	307	46%	644	57%	7,499	58%
			1-5 hr/wk	0	0%	28	4%	47	4%	647	5%	2	4%	46	7%	66	6%	754	6%
			6-10 hr/wk	3	14%	37	6%	60	5%	543	4%	1	2%	46	7%	81	7%	884	7%
			11-15 hr/wk	0	0%	31	5%	47	4%	493	4%	2	4%	46	7%	80	7%	796	6%
			16-20 hr/wk	2	10%	47	7%	49	4%	554	4%	5	10%	68	10%	88	8%	1,027	8%
			21-25 hr/wk	1	5%	27	4%	33	3%	348	3%	3	6%	56	8%	59	5%	716	6%
			26-30 hr/wk	0	0%	12	2%	15	1%	167	1%	1	2%	30	5%	36	3%	450	3%
			30+ hr/wk	0	0%	21	3%	25	2%	275	2%	2	4%	66	10%	76	7%	844	7%
			<b>Total</b>	<b>21</b>	<b>100%</b>	<b>638</b>	<b>100%</b>	<b>1,136</b>	<b>100%</b>	<b>13,317</b>	<b>100%</b>	<b>49</b>	<b>100%</b>	<b>665</b>	<b>100%</b>	<b>1,130</b>	<b>100%</b>	<b>12,970</b>	<b>100%</b>
9d.	Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	COCURR01 (EEE)	0 hr/wk	5	24%	270	42%	333	29%	3,967	30%	23	47%	288	43%	350	31%	4,340	33%
			1-5 hr/wk	10	48%	191	30%	396	35%	4,754	36%	10	20%	211	32%	389	34%	4,396	34%
			6-10 hr/wk	3	14%	101	16%	186	16%	2,056	15%	10	20%	91	14%	161	14%	1,905	15%
			11-15 hr/wk	2	10%	33	5%	93	8%	1,117	8%	0	0%	32	5%	94	8%	1,032	8%
			16-20 hr/wk	1	5%	29	5%	70	6%	723	5%	0	0%	25	4%	71	6%	628	5%
			21-25 hr/wk	0	0%	7	1%	26	2%	363	3%	2	4%	8	1%	35	3%	295	2%
			26-30 hr/wk	0	0%	6	1%	12	1%	142	1%	3	6%	3	0%	14	1%	130	1%
			30+ hr/wk	0	0%	5	1%	23	2%	221	2%	1	2%	9	1%	19	2%	249	2%
			<b>Total</b>	<b>21</b>	<b>100%</b>	<b>642</b>	<b>100%</b>	<b>1,139</b>	<b>100%</b>	<b>13,343</b>	<b>100%</b>	<b>49</b>	<b>100%</b>	<b>667</b>	<b>100%</b>	<b>1,133</b>	<b>100%</b>	<b>12,975</b>	<b>100%</b>



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**Frequency Distributions-BIOLOGICAL SCIENCES**  
**Ferris State University**

			First-Year Students								Seniors								
	Variable	Response Options	Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010		
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
9e.	Relaxing and socializing (watching TV, partying, etc.)	SOCIAL05	0 hr/wk	0	0%	4	1%	16	1%	155	1%	0	0%	4	1%	12	1%	146	1%
			1-5 hr/wk	5	25%	132	21%	272	24%	3,274	25%	11	22%	193	29%	298	26%	3,551	27%
			6-10 hr/wk	6	30%	206	32%	371	33%	4,109	31%	8	16%	203	31%	363	32%	4,061	31%
			11-15 hr/wk	5	25%	124	19%	216	19%	2,779	21%	11	22%	122	18%	221	19%	2,523	19%
			16-20 hr/wk	2	10%	85	13%	132	12%	1,578	12%	8	16%	71	11%	129	11%	1,369	11%
			21-25 hr/wk	2	10%	40	6%	58	5%	634	5%	2	4%	33	5%	56	5%	613	5%
			26-30 hr/wk	0	0%	21	3%	22	2%	287	2%	3	6%	17	3%	20	2%	272	2%
			30+ hr/wk	0	0%	30	5%	50	4%	518	4%	6	12%	20	3%	35	3%	427	3%
			Total	20	100%	642	100%	1,137	100%	13,334	100%	49	100%	663	100%	1,134	100%	12,962	100%
9f.	Providing care for dependents living with you (parents, children, spouse, etc.)	CAREDE01	0 hr/wk	20	95%	453	71%	866	76%	10,308	77%	35	71%	425	64%	817	72%	9,017	70%
			1-5 hr/wk	0	0%	94	15%	144	13%	1,508	11%	6	12%	91	14%	128	11%	1,624	13%
			6-10 hr/wk	0	0%	30	5%	52	5%	594	4%	1	2%	37	6%	52	5%	763	6%
			11-15 hr/wk	0	0%	15	2%	30	3%	327	2%	0	0%	27	4%	36	3%	426	3%
			16-20 hr/wk	0	0%	11	2%	12	1%	182	1%	1	2%	15	2%	19	2%	259	2%
			21-25 hr/wk	0	0%	4	1%	5	0%	96	1%	1	2%	6	1%	11	1%	121	1%
			26-30 hr/wk	1	5%	3	0%	5	0%	51	0%	0	0%	11	2%	7	1%	100	1%
			30+ hr/wk	0	0%	29	5%	22	2%	242	2%	5	10%	54	8%	63	6%	636	5%
			Total	21	100%	639	100%	1,136	100%	13,308	100%	49	100%	666	100%	1,133	100%	12,946	100%
9g.	Commuting to class (driving, walking, etc.)	COMMUTE	0 hr/wk	2	10%	49	8%	223	20%	2,305	17%	1	2%	31	5%	123	11%	1,221	9%
			1-5 hr/wk	14	67%	438	68%	711	62%	8,291	62%	33	67%	434	65%	769	68%	8,404	65%
			6-10 hr/wk	4	19%	105	16%	128	11%	1,687	13%	10	20%	139	21%	161	14%	2,267	17%
			11-15 hr/wk	0	0%	30	5%	49	4%	545	4%	3	6%	39	6%	46	4%	650	5%
			16-20 hr/wk	0	0%	11	2%	11	1%	218	2%	0	0%	9	1%	21	2%	213	2%
			21-25 hr/wk	1	5%	3	0%	8	1%	119	1%	0	0%	6	1%	2	0%	86	1%
			26-30 hr/wk	0	0%	2	0%	3	0%	50	0%	0	0%	2	0%	3	0%	40	0%
			30+ hr/wk	0	0%	5	1%	8	1%	139	1%	2	4%	5	1%	9	1%	99	1%
			Total	21	100%	643	100%	1,141	100%	13,354	100%	49	100%	665	100%	1,134	100%	12,980	100%
10a.	Spending significant amounts of time studying and on academic work	ENVSCHOL (LAC)	Very little	0	0%	6	1%	13	1%	160	1%	2	4%	10	2%	6	1%	199	2%
			Some	3	14%	74	12%	89	8%	1,403	11%	11	22%	100	15%	126	11%	1,641	13%
			Quite a bit	7	33%	289	45%	443	39%	5,509	41%	21	43%	293	44%	428	38%	5,293	41%
			Very much	11	52%	274	43%	596	52%	6,256	47%	15	31%	263	39%	572	51%	5,835	45%
			Total	21	100%	643	100%	1,141	100%	13,328	100%	49	100%	666	100%	1,132	100%	12,968	100%
10b.	Providing the support you need to help you succeed academically	ENVSUPRT (SCE)	Very little	1	5%	13	2%	18	2%	275	2%	4	8%	27	4%	47	4%	552	4%
			Some	8	40%	93	14%	168	15%	1,961	15%	10	20%	167	25%	196	17%	2,841	22%
			Quite a bit	3	15%	294	46%	474	42%	5,521	42%	24	49%	302	46%	498	44%	5,523	43%
			Very much	8	40%	242	38%	475	42%	5,517	42%	11	22%	165	25%	387	34%	4,012	31%
			Total	20	100%	642	100%	1,135	100%	13,274	100%	49	100%	661	100%	1,128	100%	12,928	100%

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**Ferris State University**

			First-Year Students								Seniors							
			Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010	
	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
10c. Encouraging contact among students from different economic, social, and racial or ethnic backgrounds	ENVDIVRS (EEE)	Very little	3	15%	77	12%	136	12%	1,340	10%	10	20%	136	21%	214	19%	2,253	17%
		Some	6	30%	203	32%	349	31%	3,729	28%	18	37%	224	34%	384	34%	4,420	34%
		Quite a bit	7	35%	205	32%	361	32%	4,431	33%	18	37%	192	29%	313	28%	3,673	28%
		Very much	4	20%	157	24%	287	25%	3,773	28%	3	6%	108	16%	213	19%	2,564	20%
	Total		20	100%	642	100%	1,133	100%	13,273	100%	49	100%	660	100%	1,124	100%	12,910	100%
10d. Helping you cope with your non-academic responsibilities (work, family, etc.)	ENVNACAD (SCE)	Very little	7	33%	157	24%	262	23%	2,807	21%	24	49%	270	41%	374	33%	4,399	34%
		Some	6	29%	276	43%	442	39%	4,996	38%	19	39%	251	38%	443	39%	5,037	39%
		Quite a bit	6	29%	154	24%	299	26%	3,641	27%	5	10%	100	15%	227	20%	2,400	19%
		Very much	2	10%	55	9%	133	12%	1,852	14%	1	2%	41	6%	90	8%	1,121	9%
Total		21	100%	642	100%	1,136	100%	13,296	100%	49	100%	662	100%	1,134	100%	12,957	100%	
10e. Providing the support you need to thrive socially	ENVSOCAL (SCE)	Very little	6	29%	91	14%	162	14%	1,706	13%	15	31%	165	25%	238	21%	2,725	21%
		Some	4	19%	240	38%	391	35%	4,362	33%	23	47%	279	42%	420	37%	5,074	39%
		Quite a bit	8	38%	223	35%	389	34%	4,708	36%	7	14%	161	24%	354	31%	3,574	28%
		Very much	3	14%	83	13%	186	16%	2,458	19%	4	8%	58	9%	121	11%	1,543	12%
Total		21	100%	637	100%	1,128	100%	13,234	100%	49	100%	663	100%	1,133	100%	12,916	100%	
10f. Attending campus events and activities (special speakers, cultural performances, athletic events, etc.)	ENVEVENT	Very little	1	5%	46	7%	61	5%	736	6%	9	18%	73	11%	86	8%	1,116	9%
		Some	3	14%	163	25%	248	22%	2,774	21%	11	22%	219	33%	312	28%	3,473	27%
		Quite a bit	8	38%	261	41%	468	41%	5,240	39%	18	37%	261	39%	449	40%	5,004	39%
		Very much	9	43%	170	27%	358	32%	4,523	34%	11	22%	110	17%	287	25%	3,330	26%
Total		21	100%	640	100%	1,135	100%	13,273	100%	49	100%	663	100%	1,134	100%	12,923	100%	
10g. Using computers in academic work	ENVCOMPT	Very little	0	0%	14	2%	26	2%	260	2%	3	6%	12	2%	13	1%	203	2%
		Some	2	10%	81	13%	153	13%	1,614	12%	6	12%	72	11%	132	12%	1,264	10%
		Quite a bit	10	48%	220	34%	410	36%	4,474	34%	16	33%	231	35%	346	31%	4,067	31%
		Very much	9	43%	325	51%	545	48%	6,958	52%	24	49%	347	52%	643	57%	7,426	57%
Total		21	100%	640	100%	1,134	100%	13,306	100%	49	100%	662	100%	1,134	100%	12,960	100%	
11a. Acquiring a broad general education	GNGENLED	Very little	0	0%	3	0%	16	1%	247	2%	1	2%	18	3%	21	2%	264	2%
		Some	6	29%	92	14%	137	12%	1,590	12%	11	22%	106	16%	112	10%	1,556	12%
		Quite a bit	8	38%	281	44%	499	44%	5,451	41%	16	33%	266	40%	400	35%	4,741	37%
		Very much	7	33%	259	41%	484	43%	5,982	45%	21	43%	276	41%	595	53%	6,372	49%
Total		21	100%	635	100%	1,136	100%	13,270	100%	49	100%	666	100%	1,128	100%	12,933	100%	
11b. Acquiring job or work-related knowledge and skills	GNWORK	Very little	3	14%	53	8%	87	8%	1,156	9%	5	10%	60	9%	86	8%	1,059	8%
		Some	6	29%	225	35%	373	33%	3,795	29%	16	33%	193	29%	296	26%	3,386	26%
		Quite a bit	6	29%	232	36%	394	35%	4,790	36%	16	33%	252	38%	393	35%	4,610	36%
		Very much	6	29%	130	20%	279	25%	3,520	27%	12	24%	162	24%	353	31%	3,856	30%
Total		21	100%	640	100%	1,133	100%	13,261	100%	49	100%	667	100%	1,128	100%	12,911	100%	



**NSSE 2010 Major Field Report: Part II. Comparisons to Other Institutions**  
**Frequency Distributions-BIOLOGICAL SCIENCES**  
**Ferris State University**

			First-Year Students								Seniors							
Item	Variable	Response Options	Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
11c. Writing clearly and effectively	GNWRITE	Very little	2	10%	21	3%	57	5%	585	4%	6	12%	31	5%	45	4%	542	4%
		Some	4	19%	141	22%	246	22%	2,671	20%	14	29%	156	23%	222	20%	2,642	20%
		Quite a bit	8	38%	260	41%	471	41%	5,399	41%	19	39%	290	44%	446	39%	5,218	40%
		Very much	7	33%	219	34%	363	32%	4,623	35%	10	20%	188	28%	417	37%	4,544	35%
	Total	21	100%	641	100%	1,137	100%	13,278	100%	49	100%	665	100%	1,130	100%	12,946	100%	
11d. Speaking clearly and effectively	GNSPEAK	Very little	0	0%	46	7%	107	9%	1,104	8%	6	12%	62	9%	51	5%	903	7%
		Some	2	10%	210	33%	328	29%	3,561	27%	14	29%	187	28%	284	25%	3,259	25%
		Quite a bit	11	52%	205	32%	417	37%	4,878	37%	16	33%	260	39%	428	38%	4,906	38%
		Very much	8	38%	181	28%	282	25%	3,724	28%	13	27%	155	23%	360	32%	3,845	30%
	Total	21	100%	642	100%	1,134	100%	13,267	100%	49	100%	664	100%	1,123	100%	12,913	100%	
11e. Thinking critically and analytically	GNANALY	Very little	0	0%	6	1%	19	2%	235	2%	1	2%	9	1%	13	1%	206	2%
		Some	3	14%	82	13%	109	10%	1,429	11%	14	29%	93	14%	95	8%	1,306	10%
		Quite a bit	9	43%	248	39%	467	41%	5,140	39%	14	29%	276	42%	408	36%	4,675	36%
		Very much	9	43%	301	47%	537	47%	6,449	49%	19	40%	286	43%	612	54%	6,724	52%
	Total	21	100%	637	100%	1,132	100%	13,253	100%	48	100%	664	100%	1,128	100%	12,911	100%	
11f. Analyzing quantitative problems	GNQUANT	Very little	1	5%	13	2%	26	2%	336	3%	1	2%	11	2%	17	2%	268	2%
		Some	3	14%	105	16%	157	14%	1,991	15%	15	31%	111	17%	141	13%	1,823	14%
		Quite a bit	11	52%	265	41%	466	41%	5,452	41%	18	37%	286	43%	439	39%	5,051	39%
		Very much	6	29%	257	40%	484	43%	5,448	41%	15	31%	251	38%	528	47%	5,732	45%
	Total	21	100%	640	100%	1,133	100%	13,227	100%	49	100%	659	100%	1,125	100%	12,874	100%	
11g. Using computing and information technology	GNCMPTS	Very little	3	14%	35	5%	52	5%	626	5%	4	8%	23	3%	30	3%	464	4%
		Some	3	14%	140	22%	243	21%	2,807	21%	11	22%	131	20%	216	19%	2,549	20%
		Quite a bit	9	43%	248	39%	459	40%	5,011	38%	19	39%	253	38%	451	40%	4,881	38%
		Very much	6	29%	219	34%	385	34%	4,832	36%	15	31%	260	39%	433	38%	5,049	39%
	Total	21	100%	642	100%	1,139	100%	13,276	100%	49	100%	667	100%	1,130	100%	12,943	100%	
11h. Working effectively with others	GNOTHERS	Very little	1	5%	23	4%	54	5%	523	4%	5	10%	25	4%	33	3%	462	4%
		Some	7	33%	150	23%	229	20%	2,778	21%	13	27%	159	24%	201	18%	2,588	20%
		Quite a bit	9	43%	255	40%	460	40%	5,184	39%	17	35%	263	40%	462	41%	5,138	40%
		Very much	4	19%	214	33%	397	35%	4,793	36%	14	29%	214	32%	432	38%	4,746	37%
	Total	21	100%	642	100%	1,140	100%	13,278	100%	49	100%	661	100%	1,128	100%	12,934	100%	
11i. Voting in local, state, or national elections	GNCITIZN	Very little	14	67%	328	52%	574	51%	6,199	47%	27	55%	252	38%	396	35%	4,450	35%
		Some	5	24%	180	28%	313	28%	3,933	30%	12	24%	219	33%	384	34%	4,354	34%
		Quite a bit	1	5%	82	13%	154	14%	2,008	15%	10	20%	133	20%	221	20%	2,515	20%
		Very much	1	5%	43	7%	90	8%	1,082	8%	0	0%	58	9%	121	11%	1,550	12%
	Total	21	100%	633	100%	1,131	100%	13,222	100%	49	100%	662	100%	1,122	100%	12,869	100%	





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**Ferris State University**

			First-Year Students								Seniors							
			Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010	
	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
11j. Learning effectively on your own	GNINQ	Very little	0	0%	25	4%	57	5%	528	4%	6	12%	41	6%	50	4%	628	5%
		Some	6	29%	145	23%	237	21%	2,700	20%	10	20%	133	20%	207	19%	2,260	18%
		Quite a bit	11	52%	296	47%	505	45%	5,693	43%	27	55%	279	42%	439	39%	5,103	40%
		Very much	4	19%	170	27%	333	29%	4,267	32%	6	12%	206	31%	417	37%	4,867	38%
	Total		21	100%	636	100%	1,132	100%	13,188	100%	49	100%	659	100%	1,113	100%	12,858	100%
11k. Understanding yourself	GNSELF	Very little	0	0%	77	12%	98	9%	1,156	9%	7	15%	101	15%	119	11%	1,440	11%
		Some	9	43%	178	28%	285	25%	3,286	25%	15	31%	186	28%	306	27%	3,227	25%
		Quite a bit	8	38%	219	34%	431	38%	4,825	37%	18	38%	214	32%	384	34%	4,298	33%
		Very much	4	19%	163	26%	312	28%	3,897	30%	8	17%	160	24%	307	28%	3,883	30%
	Total		21	100%	637	100%	1,126	100%	13,164	100%	48	100%	661	100%	1,116	100%	12,848	100%
11l. Understanding people of other racial and ethnic backgrounds	GNDIVERS	Very little	2	10%	94	15%	175	15%	1,546	12%	9	18%	117	18%	188	17%	1,994	15%
		Some	12	57%	226	35%	358	32%	4,054	31%	20	41%	256	39%	396	35%	4,303	33%
		Quite a bit	6	29%	193	30%	377	33%	4,490	34%	17	35%	183	28%	341	30%	3,970	31%
		Very much	1	5%	124	19%	220	19%	3,119	24%	3	6%	103	16%	195	17%	2,600	20%
	Total		21	100%	637	100%	1,130	100%	13,209	100%	49	100%	659	100%	1,120	100%	12,867	100%
11m. Solving complex real-world problems	GNPROBSV	Very little	2	10%	66	10%	106	9%	1,171	9%	8	16%	89	13%	98	9%	1,292	10%
		Some	11	52%	219	34%	341	30%	4,024	30%	13	27%	213	32%	351	31%	3,935	31%
		Quite a bit	7	33%	230	36%	452	40%	4,983	38%	22	45%	242	36%	413	37%	4,654	36%
		Very much	1	5%	120	19%	234	21%	3,035	23%	6	12%	120	18%	255	23%	2,976	23%
	Total		21	100%	635	100%	1,133	100%	13,213	100%	49	100%	664	100%	1,117	100%	12,857	100%
11n. Developing a personal code of values and ethics	GNETHICS	Very little	3	14%	94	15%	141	12%	1,455	11%	14	29%	142	21%	139	12%	1,848	14%
		Some	6	29%	208	33%	304	27%	3,516	27%	16	33%	211	32%	327	29%	3,675	29%
		Quite a bit	10	48%	196	31%	408	36%	4,579	35%	14	29%	196	30%	365	33%	3,953	31%
		Very much	2	10%	140	22%	278	25%	3,664	28%	5	10%	115	17%	287	26%	3,406	26%
	Total		21	100%	638	100%	1,131	100%	13,214	100%	49	100%	664	100%	1,118	100%	12,882	100%
11o. Contributing to the welfare of your community	GNCOMMUN	Very little	3	14%	129	20%	169	15%	1,737	13%	12	24%	132	20%	158	14%	1,969	15%
		Some	8	38%	224	35%	375	33%	4,209	32%	25	51%	252	38%	368	33%	4,113	32%
		Quite a bit	8	38%	181	29%	379	34%	4,372	33%	9	18%	184	28%	346	31%	3,912	30%
		Very much	2	10%	99	16%	206	18%	2,890	22%	3	6%	93	14%	246	22%	2,887	22%
	Total		21	100%	633	100%	1,129	100%	13,208	100%	49	100%	661	100%	1,118	100%	12,881	100%
11p. Developing a deepened sense of spirituality	GNSPIRIT	Very little	11	52%	294	46%	397	35%	4,508	34%	27	56%	381	58%	511	46%	5,905	46%
		Some	4	19%	185	29%	322	28%	3,594	27%	16	33%	164	25%	288	26%	3,195	25%
		Quite a bit	5	24%	95	15%	227	20%	2,757	21%	4	8%	73	11%	160	14%	1,946	15%
		Very much	1	5%	65	10%	186	16%	2,365	18%	1	2%	41	6%	162	14%	1,850	14%
	Total		21	100%	639	100%	1,132	100%	13,224	100%	48	100%	659	100%	1,121	100%	12,896	100%





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**Ferris State University**

**First-Year Students**

**Seniors**

	Variable	Response Options	Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
12.	Overall, how would you evaluate the quality of academic advising you have received at your institution?	ADVISE																
		Poor	4	19%	43	7%	53	5%	597	4%	5	10%	90	13%	100	9%	1,288	10%
		Fair	1	5%	101	16%	170	15%	2,102	16%	14	29%	156	23%	215	19%	2,574	20%
		Good	11	52%	280	44%	512	45%	6,065	45%	17	35%	262	39%	427	38%	5,149	40%
		Excellent	5	24%	217	34%	406	36%	4,585	34%	13	27%	162	24%	391	35%	3,987	31%
		Total	21	100%	641	100%	1,141	100%	13,349	100%	49	100%	670	100%	1,133	100%	12,998	100%
13.	How would you evaluate your entire educational experience at this institution?	ENTIREXP																
		Poor	1	5%	8	1%	14	1%	198	1%	2	4%	12	2%	23	2%	257	2%
		Fair	4	19%	73	11%	109	10%	1,332	10%	5	10%	105	16%	99	9%	1,484	11%
		Good	11	52%	333	52%	535	47%	6,371	48%	32	65%	342	51%	497	44%	5,984	46%
		Excellent	5	24%	229	36%	481	42%	5,442	41%	10	20%	210	31%	513	45%	5,275	41%
		Total	21	100%	643	100%	1,139	100%	13,343	100%	49	100%	669	100%	1,132	100%	13,000	100%
14.	If you could start over again, would you go to the <i>same</i> institution you are now attending?	SAMECOLL																
		Definitely no	2	10%	21	3%	38	3%	502	4%	3	6%	38	6%	61	5%	761	6%
		Probably no	5	24%	80	13%	141	12%	1,623	12%	11	22%	114	17%	133	12%	1,767	14%
		Probably yes	5	24%	254	40%	465	41%	5,318	40%	21	43%	264	39%	414	37%	4,929	38%
		Definitely yes	9	43%	284	44%	496	44%	5,910	44%	14	29%	254	38%	526	46%	5,546	43%
		Total	21	100%	639	100%	1,140	100%	13,353	100%	49	100%	670	100%	1,134	100%	13,003	100%



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**Frequency Distributions-BIOLOGICAL SCIENCES**  
**Ferris State University**

			First-Year Students								Seniors							
			Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010	
Variable	Response Options		Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
15. Age	AGE	19 or younger	20	95%	570	89%	1,075	94%	12,436	93%	0	0%	4	1%	6	1%	97	1%
		20-23	0	0%	38	6%	45	4%	621	5%	36	73%	478	71%	911	80%	10,279	79%
		24-29	1	5%	27	4%	12	1%	192	1%	5	10%	114	17%	136	12%	1,777	14%
		30-39	0	0%	6	1%	8	1%	94	1%	4	8%	49	7%	50	4%	607	5%
		40-55	0	0%	2	0%	3	0%	31	0%	4	8%	25	4%	28	2%	235	2%
		Over 55	0	0%	0	0%	0	0%	2	0%	0	0%	0	0%	1	0%	15	0%
		Total	21	100%	643	100%	1,143	100%	13,376	100%	49	100%	670	100%	1,132	100%	13,010	100%
16. Your sex:	SEX	Male	6	29%	209	33%	324	28%	4,192	31%	11	22%	270	40%	404	36%	4,595	35%
		Female	15	71%	434	67%	817	72%	9,184	69%	38	78%	400	60%	729	64%	8,409	65%
		Total	21	100%	643	100%	1,141	100%	13,376	100%	49	100%	670	100%	1,133	100%	13,004	100%
17. Are you an international student or foreign national?	INTERNAT	No	21	100%	618	96%	1,091	96%	12,604	95%	49	100%	647	97%	1,079	96%	12,320	95%
		Yes	0	0%	26	4%	44	4%	718	5%	0	0%	22	3%	44	4%	637	5%
		Total	21	100%	644	100%	1,135	100%	13,322	100%	49	100%	669	100%	1,123	100%	12,957	100%
18. What is your racial or ethnic identification? (Select only one.)	RACE05	American Indian or other Native American	0	0%	5	1%	5	0%	93	1%	0	0%	6	1%	6	1%	109	1%
		Asian, Asian American, or Pacific Islander	3	14%	20	3%	92	8%	1,255	9%	0	0%	33	5%	60	5%	1,143	9%
		Black or African American	2	10%	48	7%	79	7%	1,356	10%	2	4%	32	5%	72	6%	880	7%
		White (non-Hispanic)	15	71%	484	75%	780	68%	8,212	61%	39	80%	492	74%	821	73%	8,524	66%
		Mexican or Mexican American	0	0%	14	2%	29	3%	470	4%	1	2%	5	1%	24	2%	352	3%
		Puerto Rican	0	0%	2	0%	12	1%	171	1%	0	0%	4	1%	4	0%	132	1%
		Other Hispanic or Latino	0	0%	6	1%	35	3%	482	4%	0	0%	5	1%	26	2%	412	3%
		Multiracial	0	0%	13	2%	42	4%	454	3%	2	4%	21	3%	26	2%	388	3%
		Other	0	0%	15	2%	17	1%	250	2%	0	0%	10	1%	21	2%	258	2%
		I prefer not to respond	1	5%	38	6%	50	4%	630	5%	5	10%	61	9%	70	6%	798	6%
		Total	21	100%	645	100%	1,141	100%	13,373	100%	49	100%	669	100%	1,130	100%	12,996	100%
19. What is your current classification in college?	CLASS	Freshman/first year	20	95%	566	88%	1,038	91%	11,960	89%	0	0%	0	0%	2	0%	11	0%
		Sophomore	1	5%	68	11%	89	8%	1,208	9%	0	0%	2	0%	3	0%	49	0%
		Junior	0	0%	6	1%	7	1%	129	1%	2	4%	16	2%	97	9%	812	6%
		Senior	0	0%	4	1%	3	0%	28	0%	46	94%	639	96%	1,015	90%	11,841	91%
		Unclassified	0	0%	0	0%	2	0%	44	0%	1	2%	11	2%	17	1%	291	2%
		Total	21	100%	644	100%	1,139	100%	13,369	100%	49	100%	668	100%	1,134	100%	13,004	100%
20. Did you begin college at your current institution or elsewhere?	ENTER	Started here	19	95%	591	92%	1,080	95%	12,570	94%	27	55%	384	57%	828	73%	9,028	69%
		Started elsewhere	1	5%	53	8%	57	5%	801	6%	22	45%	284	43%	305	27%	3,978	31%
		Total	20	100%	644	100%	1,137	100%	13,371	100%	49	100%	668	100%	1,133	100%	13,006	100%



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**Ferris State University**

			First-Year Students						Seniors										
			Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010		
	Variable	Response Options	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
21.	Since graduating from high school, which of the following types of schools have you attended other than the one you are attending now? (Select all that apply.)	VOTECH05	Vocational or technical school	0	0%	14	2%	18	2%	266	2%	2	4%	43	6%	64	6%	565	4%
		COMCOL05	Community or junior college	1	5%	42	7%	65	6%	909	7%	19	39%	274	41%	321	29%	3,971	31%
		FOURYR05	4-year college other than this one	1	5%	51	8%	72	6%	845	6%	13	27%	195	29%	253	23%	2,911	23%
		NONE05	None	17	89%	537	84%	970	87%	11,209	85%	23	47%	268	40%	618	55%	6,797	53%
		OCOL1_05	Other	1	5%	22	3%	27	2%	353	3%	0	0%	18	3%	38	3%	416	3%
-	Are you a current or former member of the U.S. Armed Forces, Reserves, or National Guard? (Item appeared only in the online instrument.)	VETERAN	No	20	100%	632	99%	1,102	99%	13,104	99%	48	100%	635	95%	1,074	97%	12,458	97%
			Yes	0	0%	5	1%	12	1%	147	1%	0	0%	34	5%	30	3%	343	3%
			Total	20	100%	637	100%	1,114	100%	13,251	100%	48	100%	669	100%	1,104	100%	12,801	100%
-	If yes: As part of your military experience, did you receive combat pay, hostile fire pay, or imminent danger pay? (Item appeared only in the online instrument.)	VETPAY	No	0	0%	3	60%	8	67%	103	71%	0	0%	16	47%	13	43%	187	55%
			Yes	0	0%	2	40%	4	33%	43	29%	0	0%	18	53%	17	57%	155	45%
			Total	0	0%	5	100%	12	100%	146	100%	0	0%	34	100%	30	100%	342	100%
22.	Thinking about this current academic term...How would you characterize your enrollment?	ENRLMENT	Less than full-time	0	0%	26	4%	19	2%	234	2%	3	6%	81	12%	81	7%	1,105	8%
			Full-time	21	100%	618	96%	1,123	98%	13,137	98%	46	94%	589	88%	1,052	93%	11,905	92%
			Total	21	100%	644	100%	1,142	100%	13,371	100%	49	100%	670	100%	1,133	100%	13,010	100%
-	Thinking about this current academic term...Are you taking all courses entirely online? (Item appeared only in the online instrument.)	DISTED	No	21	100%	636	100%	1,114	100%	13,207	100%	46	94%	652	97%	1,096	99%	12,690	99%
			Yes	0	0%	1	0%	1	0%	65	0%	3	6%	18	3%	9	1%	122	1%
			Total	21	100%	637	100%	1,115	100%	13,272	100%	49	100%	670	100%	1,105	100%	12,812	100%

**NSSE 2010 Major Field Report: Part II. Comparisons to Other Institutions**  
**Frequency Distributions-BIOLOGICAL SCIENCES**  
**Ferris State University**

	Variable	Response Options	First-Year Students								Seniors							
			Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%		
– Do you have any disabilities? (Select all that apply.) <i>(Item appeared only in the online instrument and was preceded by the statement "Your institution will not receive your identified response to the following question. Only an overall summary of responses will be provided." Accordingly, this item does not appear in the NSSE10 data file or codebook.)</i>	DISNONE	No, I do not have any disabilities	17	81%	541	86%	969	88%	11,458	87%	41	84%	589	88%	954	87%	11,105	87%
	DISSENSE	Yes, I have a sensory impairment (vision or hearing)	2	10%	15	2%	30	3%	381	3%	1	2%	16	2%	27	2%	275	2%
	DISMOBIL	Yes, I have a mobility impairment	0	0%	4	1%	4	0%	44	0%	1	2%	2	0%	2	0%	46	0%
	DISLEARN	Yes, I have a learning disability	0	0%	9	1%	14	1%	197	2%	1	2%	8	1%	17	2%	207	2%
	DISDEVLP	Yes, I have a developmental disorder (ADHD, Autism spectrum disorder, etc.)	1	5%	22	3%	27	2%	288	2%	0	0%	20	3%	28	3%	317	2%
	DISMENT	Yes, I have a mental health disorder	0	0%	10	2%	18	2%	245	2%	0	0%	12	2%	26	2%	258	2%
	DISMED	Yes, I have a medical disability not listed above	0	0%	12	2%	17	2%	159	1%	1	2%	4	1%	14	1%	152	1%
	DISOTHER	Yes, I have another disability	0	0%	1	0%	7	1%	62	0%	1	2%	2	0%	8	1%	64	1%
	DISREFUS	I choose not to answer	1	5%	28	4%	44	4%	557	4%	3	6%	22	3%	49	4%	535	4%
23. Are you member of a social fraternity or sorority?	FRATSORO	No	20	95%	608	94%	1,030	90%	12,079	90%	43	88%	630	94%	1,002	88%	11,452	88%
		Yes	1	5%	37	6%	113	10%	1,299	10%	6	12%	39	6%	134	12%	1,561	12%
	Total	21	100%	645	100%	1,143	100%	13,378	100%	49	100%	669	100%	1,136	100%	13,013	100%	
24. Are you a student-athlete on a team sponsored by your institution's athletics department?	ATHLETE	No	20	95%	598	93%	998	88%	11,708	88%	47	96%	645	96%	1,016	90%	12,021	92%
		Yes	1	5%	44	7%	141	12%	1,653	12%	2	4%	25	4%	114	10%	980	8%
	Total	21	100%	642	100%	1,139	100%	13,361	100%	49	100%	670	100%	1,130	100%	13,001	100%	



**NSSE 2010 Major Field Report: Part II. Comparisons to Other Institutions**  
**Frequency Distributions-BIOLOGICAL SCIENCES**  
**Ferris State University**

			First-Year Students								Seniors							
Question	Variable	Response Options	Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
25. What have most of your grades been up to now at this institution?	GRADES04	C- or lower	0	0%	11	2%	31	3%	275	2%	0	0%	2	0%	5	0%	52	0%
		C	2	10%	20	3%	46	4%	456	3%	1	2%	9	1%	24	2%	270	2%
		C+	3	14%	45	7%	51	4%	691	5%	2	4%	35	5%	67	6%	569	4%
		B-	2	10%	54	8%	84	7%	980	7%	5	10%	55	8%	78	7%	965	7%
		B	5	24%	121	19%	223	20%	2,503	19%	14	29%	147	22%	210	19%	2,524	19%
		B+	2	10%	100	16%	209	18%	2,567	19%	6	12%	135	20%	245	22%	2,573	20%
		A-	5	24%	132	20%	205	18%	2,652	20%	10	20%	128	19%	227	20%	2,622	20%
		A	2	10%	161	25%	292	26%	3,239	24%	11	22%	158	24%	276	24%	3,421	26%
	Total		21	100%	644	100%	1,141	100%	13,363	100%	49	100%	669	100%	1,132	100%	12,996	100%
26. Which of the following best describes where you are living now while attending college?	LIVENOW	Dormitory or other campus housing	16	80%	379	59%	812	72%	9,611	72%	6	12%	72	11%	260	23%	2,657	20%
		Residence, <b>walking distance</b>	1	5%	43	7%	66	6%	722	5%	18	37%	192	29%	350	31%	3,865	30%
		Residence, <b>driving distance</b>	3	15%	203	32%	232	20%	2,644	20%	24	49%	370	56%	491	43%	5,948	46%
		Fraternity/sorority house	0	0%	3	0%	5	0%	69	1%	0	0%	8	1%	11	1%	215	2%
		None of the above	0	0%	13	2%	17	2%	271	2%	1	2%	24	4%	22	2%	301	2%
	Total		20	100%	641	100%	1,132	100%	13,317	100%	49	100%	666	100%	1,134	100%	12,986	100%
27a. What is the highest level of education that your <b>father</b> completed?	FATHREDU	Did not finish HS	2	10%	41	6%	80	7%	964	7%	5	10%	35	5%	64	6%	800	6%
		Graduated from HS	10	48%	200	32%	258	23%	2,957	22%	12	24%	186	28%	258	23%	2,643	20%
		Attended, no degree	3	14%	109	17%	135	12%	1,739	13%	7	14%	93	14%	153	14%	1,657	13%
		Completed Associate's	0	0%	61	10%	112	10%	1,096	8%	4	8%	75	11%	96	9%	1,043	8%
		Completed Bachelor's	3	14%	124	20%	301	27%	3,351	25%	19	39%	158	24%	271	24%	3,240	25%
		Completed Master's	1	5%	70	11%	148	13%	1,839	14%	1	2%	76	11%	146	13%	1,915	15%
		Completed Doctorate	2	10%	29	5%	95	8%	1,298	10%	1	2%	46	7%	139	12%	1,638	13%
	Total		21	100%	634	100%	1,129	100%	13,244	100%	49	100%	669	100%	1,127	100%	12,936	100%
27b. What is the highest level of education that your <b>mother</b> completed?	MOTHREDU	Did not finish HS	1	5%	23	4%	56	5%	729	5%	1	2%	28	4%	52	5%	675	5%
		Graduated from HS	7	33%	183	28%	206	18%	2,419	18%	16	33%	171	26%	213	19%	2,454	19%
		Attended, no degree	5	24%	114	18%	172	15%	1,993	15%	9	18%	102	15%	161	14%	1,821	14%
		Completed Associate's	3	14%	101	16%	156	14%	1,692	13%	9	18%	122	18%	146	13%	1,689	13%
		Completed Bachelor's	3	14%	150	23%	341	30%	3,959	30%	7	14%	148	22%	348	31%	3,825	29%
		Completed Master's	2	10%	59	9%	169	15%	2,004	15%	7	14%	81	12%	174	15%	1,978	15%
		Completed Doctorate	0	0%	13	2%	38	3%	535	4%	0	0%	18	3%	33	3%	538	4%
	Total		21	100%	643	100%	1,138	100%	13,331	100%	49	100%	670	100%	1,127	100%	12,980	100%



**NSSE 2010 Major Field Report: Part II. Comparisons to Other Institutions**  
**Frequency Distributions-BIOLOGICAL SCIENCES**  
**Ferris State University**

			First-Year Students								Seniors							
Variable	Response Options	Ferris State		Selected Peers		Carnegie Class		NSSE 2010		Ferris State		Selected Peers		Carnegie Class		NSSE 2010		
		Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	
28. Primary major or expected primary major, in collapsed categories	MAJRPCOL	Arts and Humanities	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
		Biological Science	21	100%	645	100%	1,143	100%	13,399	100%	49	100%	670	100%	1,136	100%	13,030	100%
		Business	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
		Education	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
		Engineering	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
		Physical Science	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
		Professional	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
		Social Science	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
		Other	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Undecided	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%		
		<b>Total</b>	<b>21</b>	<b>100%</b>	<b>645</b>	<b>100%</b>	<b>1,143</b>	<b>100%</b>	<b>13,399</b>	<b>100%</b>	<b>49</b>	<b>100%</b>	<b>670</b>	<b>100%</b>	<b>1,136</b>	<b>100%</b>	<b>13,030</b>	<b>100%</b>
29. Second major or expected second major (not minor, concentration, etc.) if applicable, in collapsed categories	MAJRSCOL	Arts and Humanities	3	50%	28	19%	61	21%	806	22%	0	0%	27	18%	53	18%	580	19%
		Biological Science	0	0%	18	12%	21	7%	397	11%	3	23%	19	13%	32	11%	456	15%
		Business	0	0%	2	1%	10	3%	151	4%	0	0%	4	3%	3	1%	75	2%
		Education	0	0%	3	2%	11	4%	133	4%	0	0%	10	7%	24	8%	147	5%
		Engineering	0	0%	0	0%	0	0%	16	0%	0	0%	1	1%	0	0%	14	0%
		Physical Science	1	17%	24	16%	73	25%	634	17%	0	0%	41	27%	85	30%	666	21%
		Professional	2	33%	41	28%	49	17%	627	17%	6	46%	20	13%	25	9%	339	11%
		Social Science	0	0%	15	10%	46	16%	601	16%	2	15%	17	11%	48	17%	565	18%
		Other	0	0%	14	9%	16	5%	242	7%	2	15%	13	9%	14	5%	241	8%
Undecided	0	0%	4	3%	5	2%	43	1%	0	0%	0	0%	3	1%	30	1%		
		<b>Total</b>	<b>6</b>	<b>100%</b>	<b>149</b>	<b>100%</b>	<b>292</b>	<b>100%</b>	<b>3,650</b>	<b>100%</b>	<b>13</b>	<b>100%</b>	<b>152</b>	<b>100%</b>	<b>287</b>	<b>100%</b>	<b>3,113</b>	<b>100%</b>
- Institution reported: Gender	GENDER	Male	6	29%	211	33%	325	28%	4,204	31%	11	22%	269	40%	404	36%	4,596	35%
		Female	15	71%	434	67%	818	72%	9,193	69%	38	78%	401	60%	732	64%	8,433	65%
		<b>Total</b>	<b>21</b>	<b>100%</b>	<b>645</b>	<b>100%</b>	<b>1,143</b>	<b>100%</b>	<b>13,397</b>	<b>100%</b>	<b>49</b>	<b>100%</b>	<b>670</b>	<b>100%</b>	<b>1,136</b>	<b>100%</b>	<b>13,029</b>	<b>100%</b>
- Institution reported: Race or ethnicity	ETHNICIT	African American/Black	2	10%	44	10%	87	8%	1,264	10%	1	2%	31	7%	72	6%	862	7%
		Am. Indian/Native Amer.	0	0%	2	0%	3	0%	89	1%	0	0%	3	1%	5	0%	96	1%
		Asian/Pacific Islander	3	14%	13	3%	87	8%	1,087	9%	1	2%	21	4%	51	5%	1,012	9%
		Caucasian/White	15	71%	306	73%	745	66%	7,453	61%	44	90%	335	71%	787	71%	7,823	68%
		Hispanic	1	5%	17	4%	86	8%	1,135	9%	2	4%	9	2%	61	5%	921	8%
		Other	0	0%	1	0%	5	0%	91	1%	0	0%	0	0%	8	1%	86	1%
		Foreign	0	0%	5	1%	17	2%	252	2%	1	2%	6	1%	19	2%	242	2%
		Multi-racial	0	0%	0	0%	12	1%	79	1%	0	0%	0	0%	11	1%	50	0%
		Unknown	0	0%	33	8%	83	7%	703	6%	0	0%	66	14%	98	9%	493	4%
		<b>Total</b>	<b>21</b>	<b>100%</b>	<b>421</b>	<b>100%</b>	<b>1,125</b>	<b>100%</b>	<b>12,153</b>	<b>100%</b>	<b>49</b>	<b>100%</b>	<b>471</b>	<b>100%</b>	<b>1,112</b>	<b>100%</b>	<b>11,585</b>	<b>100%</b>
- Institution reported: Enrollment status	ENROLLMT	Part-time	0	0%	21	3%	24	2%	300	2%	3	6%	65	10%	71	6%	1,132	9%
		Full-time	21	100%	624	97%	1,119	98%	13,099	98%	46	94%	605	90%	1,065	94%	11,898	91%
		<b>Total</b>	<b>21</b>	<b>100%</b>	<b>645</b>	<b>100%</b>	<b>1,143</b>	<b>100%</b>	<b>13,399</b>	<b>100%</b>	<b>49</b>	<b>100%</b>	<b>670</b>	<b>100%</b>	<b>1,136</b>	<b>100%</b>	<b>13,030</b>	<b>100%</b>



## *Benchmark Statistics*

**Ferris State University**  
*NSSE 2010 Major Field Report*  
*Part II. Comparisons to Other Institutions*  
**BIOLOGICAL SCIENCES**



## NSSE 2010 Major Field Report: Part II. Comparisons to Other Institutions

### *Interpreting the Benchmark Statistics*

#### Benchmarks

To focus discussions about the importance of student engagement and to guide institutional improvement efforts, NSSE created five Benchmarks of Effective Educational Practice: Level of Academic Challenge, Active and Collaborative Learning, Student-Faculty Interaction, Enriching Educational Experiences, and Supportive Campus Environment.

#### Class

Benchmark comparisons are reported separately for first-year students and seniors. Institution-reported class levels are used. Of course, first-year student reports of major are likely to be unstable, and interpretations of first-year results should be made with caution.

#### Major

Major classifications are based on recodes of the student-provided PRIMARY major (majrpcod). Major groups with fewer than twenty respondents in a given class are not reported. Comparison groups must contain at least three institutions with five or more respondents in the major group, or they are left blank.

#### Sample

This report is based on information from all randomly selected BIOLOGICAL SCIENCES students (including those from census samples) for both your institution and your comparison institutions. Targeted oversamples and other non-randomly selected students are not included.

#### BETWEEN Institution Comparisons on Major Groups

NSSE data serve to identify institutional strengths and weaknesses in reference to selected comparison institutions, yet institution-level comparisons may not capture important variation in student engagement that can be found within key sub-populations such as major. This report displays the benchmark comparisons for the BIOLOGICAL SCIENCES group at your institution and at your selected comparison institutions.

#### Mean

The mean is the arithmetic average of the students' benchmark scores where students answered at least 3/5ths of the benchmark items.

#### Weighting

All results displayed in this report are unweighted.

#### Distribution Statistics

The dispersion of the first-year and senior benchmark scores for your institution and your selected comparison or consortium groups.

	Mean Statistics			Distribution Statistics					Reference Group Comparison Statistics			
	Mean	SD <sup>b</sup>	SEM <sup>c</sup>	Percentiles <sup>a</sup>					Deg. of Freedom <sup>e</sup>	Mean Diff.	Sig. <sup>f</sup>	Effect size <sup>g</sup>
	5th	25th	50th	75th	95th							
<b>LEVEL OF ACADEMIC CHALLENGE (LAC)</b>												
NSSEville State (N = 26)	52.6	11.2	2.2	36	44	52	62	69				
Mid East Public	54.1	13.8	.4	31	45	55	64	75	1,071	-1.5	.589	-.11
Carnegie Class	53.8	13.4	.2	32	45	54	63	75	4,658	-1.2	.652	-.09
NSSE 2010	55.1	13.3	.1	33	46	55	64	76	18,094	-2.4	.348	-.18
<b>ACTIVE AND COLLABORATIVE LEARNING (ACL)</b>												
NSSEville State (N = 26)	51.1	15.8	3.1	33	43	43	57	90				
Mid East Public	42.5	15.9	.5	19	33	43	52	71	1,066	8.6	.007	.54
Carnegie Class	44.0	15.5	.2	19	33	43	52	71	4,651	7.1	.021	.46
NSSE 2010	44.4	15.4	.1	19	33	43	52	71	18,084	6.7	.026	.44

#### Statistical Significance

Benchmarks with mean differences that are larger than would be expected by chance alone are generally noted with one of three significance levels ( $p < .05$ ,  $p < .01$ , and  $p < .001$ ). The smaller the significance level, the smaller the likelihood that the difference is due to chance. Please note that statistical significance does not guarantee that the result is substantive or important. Large sample sizes (as with the NSSE project) tend to produce more statistically significant results even though the magnitude of mean differences may be inconsequential. It is recommended to consult effect sizes to judge the practical meaning of the results.

#### Effect Size

Effect size indicates the practical significance of the mean difference. It is calculated by dividing the mean difference by the pooled standard deviation. In practice, an effect size of .2 is often considered small, .5 moderate, and .8 large. A positive sign indicates that your institution's mean was greater, thus showing an affirmative result for the institution. A negative sign indicates the institution lags behind the comparison group, suggesting that the student behavior or institutional practice group, represented by the item may warrant attention.





*First-Year Students*

	Mean Statistics			Distribution Statistics					Reference Group Comparison Statistics			
	Mean	SD <sup>b</sup>	SEM <sup>c</sup>	Percentiles <sup>d</sup>					Deg. of Freedom <sup>e</sup>	Mean Diff.	Sig. <sup>f</sup>	Effect size <sup>g</sup>
	5th	25th	50th	75th	95th							
<b>LEVEL OF ACADEMIC CHALLENGE (LAC)</b>												
Ferris State (N = 21)	<b>50.3</b>	11.4	2.5	32	45	51	59	66				
Selected Peers	<b>54.4</b>	12.5	.5	34	46	54	63	75	664	-4.0	.146	-.32
Carnegie Class	<b>56.5</b>	12.6	.4	35	48	56	65	77	1,162	-6.2	.026	-.49
NSSE 2010	<b>57.0</b>	13.0	.1	35	48	57	66	77	13,401	-6.7	.019	-.51
<b>ACTIVE AND COLLABORATIVE LEARNING (ACL)</b>												
Ferris State (N = 21)	<b>42.8</b>	15.4	3.4	24	29	43	48	62				
Selected Peers	<b>41.5</b>	15.0	.6	19	33	38	52	67	662	1.3	.691	.09
Carnegie Class	<b>45.1</b>	15.5	.5	24	33	43	52	71	1,162	-2.3	.497	-.15
NSSE 2010	<b>44.7</b>	16.1	.1	19	33	43	56	71	13,393	-1.9	.590	-.12
<b>STUDENT-FACULTY INTERACTION (SFI)</b>												
Ferris State (N = 21)	<b>40.2</b>	17.8	3.9	22	22	39	56	72				
Selected Peers	<b>33.9</b>	17.4	.7	11	22	33	44	67	664	6.4	.100	.37
Carnegie Class	<b>36.0</b>	17.6	.5	11	22	33	44	67	1,161	4.2	.278	.24
NSSE 2010	<b>36.0</b>	18.4	.2	11	22	33	44	72	13,388	4.2	.295	.23
<b>ENRICHING EDUCATIONAL EXPERIENCES (EEE)</b>												
Ferris State (N = 21)	<b>25.3</b>	12.4	2.7	6	19	23	31	44				
Selected Peers	<b>26.2</b>	12.3	.5	8	17	25	35	47	662	-.9	.750	-.07
Carnegie Class	<b>29.1</b>	13.0	.4	10	19	28	37	52	1,161	-3.8	.185	-.29
NSSE 2010	<b>30.1</b>	12.9	.1	11	21	29	38	52	13,381	-4.8	.091	-.37
<b>SUPPORTIVE CAMPUS ENVIRONMENT (SCE)</b>												
Ferris State (N = 21)	<b>58.9</b>	20.4	4.5	31	42	58	75	92				
Selected Peers	<b>62.2</b>	17.4	.7	33	50	64	72	92	663	-3.3	.395	-.19
Carnegie Class	<b>63.9</b>	17.4	.5	33	53	64	75	92	1,159	-5.0	.196	-.28
NSSE 2010	<b>64.5</b>	18.2	.2	33	53	64	78	94	13,364	-5.6	.163	-.30

<sup>a</sup> Major classifications are based on recodes of the student-reported primary major field (majrpcod).

<sup>b</sup> Standard deviation is a measure of the amount the individual scores deviate from the mean of all the scores in the distribution.

<sup>c</sup> The 95% confidence interval for the population mean is equal to the sample mean plus/minus 1.96 times the standard error of the mean.

<sup>d</sup> A percentile is the point in the distribution of student benchmark scores at or below which a given percentage of benchmark scores fall.

<sup>e</sup> Degrees of freedom used to compute the t-tests. Values vary for the total Ns due to the equal variance assumption.

<sup>f</sup> Statistical significance represents the probability that the difference between the mean of your institution and that of the comparison group occurred by chance.

<sup>g</sup> Effect size is calculated by subtracting the comparison group mean from the school mean, and dividing the result by the pooled standard deviation.



NSSE 2010 Major Field Report: Part II. Comparisons to Other Institutions<sup>a</sup>

Ferris State University

Benchmark Statistics: *BIOLOGICAL SCIENCES*

Seniors

	Mean Statistics			Distribution Statistics					Reference Group Comparison Statistics			
	Mean	SD <sup>b</sup>	SEM <sup>c</sup>	Percentiles <sup>d</sup>					Deg. of Freedom <sup>e</sup>	Mean Diff.	Sig. <sup>f</sup>	Effect size <sup>g</sup>
	5th	25th	50th	75th	95th							
<b>LEVEL OF ACADEMIC CHALLENGE (LAC)</b>												
Ferris State (N = 49)	51.6	13.4	1.9	30	43	51	61	74				
Selected Peers	55.3	13.6	.5	32	46	55	65	78	717	-3.7	.064	-.27
Carnegie Class	58.1	13.2	.4	35	49	59	67	79	1,184	-6.5	.001	-.49
NSSE 2010	57.9	13.9	.1	34	49	58	68	80	13,066	-6.3	.002	-.45
<b>ACTIVE AND COLLABORATIVE LEARNING (ACL)</b>												
Ferris State (N = 49)	43.7	16.2	2.3	19	33	38	52	71				
Selected Peers	46.8	15.4	.6	24	38	48	57	76	717	-3.1	.178	-.20
Carnegie Class	50.7	16.4	.5	24	38	48	62	81	1,183	-7.1	.003	-.43
NSSE 2010	49.9	17.0	.1	24	38	48	62	81	13,067	-6.2	.010	-.37
<b>STUDENT-FACULTY INTERACTION (SFI)</b>												
Ferris State (N = 49)	40.2	18.3	2.6	17	28	39	50	72				
Selected Peers	44.6	22.1	.9	11	28	44	61	83	716	-4.3	.179	-.20
Carnegie Class	49.9	21.7	.6	17	33	50	67	89	1,182	-9.7	.002	-.45
NSSE 2010	47.8	22.2	.2	17	33	44	61	89	49	-7.6	.006	-.34
<b>ENRICHING EDUCATIONAL EXPERIENCES (EEE)</b>												
Ferris State (N = 49)	36.0	16.7	2.4	11	25	39	47	63				
Selected Peers	39.3	17.6	.7	12	27	39	51	69	716	-3.4	.196	-.19
Carnegie Class	44.0	17.2	.5	15	32	44	57	73	1,183	-8.0	.001	-.47
NSSE 2010	44.8	17.8	.2	16	32	44	57	75	13,056	-8.8	.001	-.49
<b>SUPPORTIVE CAMPUS ENVIRONMENT (SCE)</b>												
Ferris State (N = 49)	52.9	18.6	2.7	17	39	50	64	81				
Selected Peers	56.5	18.2	.7	28	44	56	69	86	714	-3.6	.182	-.20
Carnegie Class	61.0	18.3	.5	31	50	61	75	92	1,183	-8.1	.002	-.44
NSSE 2010	59.4	19.0	.2	28	47	58	72	92	13,034	-6.5	.017	-.34

<sup>a</sup> Major classifications are based on recodes of the student-reported primary major field (majrpcod).

<sup>b</sup> Standard deviation is a measure of the amount the individual scores deviate from the mean of all the scores in the distribution.

<sup>c</sup> The 95% confidence interval for the population mean is equal to the sample mean plus/minus 1.96 times the standard error of the mean.

<sup>d</sup> A percentile is the point in the distribution of student benchmark scores at or below which a given percentage of benchmark scores fall.

<sup>e</sup> Degrees of freedom used to compute the t-tests. Values vary for the total Ns due to the equal variance assumption.

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