

Reliability - Internal consistency

Scale	Variable	Description	Intercorrelation Table											
			1	2	3	4	5	6	7	8	9	10	11	12
<i>Benchmarks of Effective Educational Practices</i>														
Level of Academic Challenge	1 readasn	Number of assigned textbooks, books, or book-length packs of course readings		.23	.39	.26	.15	.16	.15	.09	.15	.22	.12	
	2 writemor	Number of written papers or reports of 20 pages or more	.09		.43	.15	.11	.14	.13	.11	.16	.15	.09	
	3 writemid	Number of written papers or reports between 5 and 19 pages	.25	.31		.37	.15	.17	.16	.12	.15	.18	.09	
	4 writesml	Number of written papers or reports of fewer than 5 pages	.22	.04	.23		.09	.10	.09	.07	.06	.11	.03	
	5 analyze	Analyzing the basic elements of an idea, experience, or theory, such as examining a particular case or situation in depth and considering its components	.15	.03	.14	.11		.63	.52	.54	.28	.17	.25	
	6 synthesz	Synthesizing and organizing ideas, information, or experiences into new, more complex interpretations and relationships	.13	.07	.15	.10	.61		.60	.55	.31	.19	.23	
	7 evaluate	Making judgments about the value of information, arguments, or methods, such as examining how others gathered and interpreted data and assessing the soundness of their conclusions	.11	.07	.14	.09	.50	.57		.54	.29	.13	.21	
	8 applying	Applying theories or concepts to practical problems or in new situations	.09	.05	.11	.07	.51	.52	.52		.29	.15	.24	
	9 workhard	Worked harder than you thought you could to meet an instructor's standards or expectations	.11	.11	.14	.05	.28	.31	.29	.30		.25	.29	
	10 acadpr01	Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)	.23	.08	.17	.13	.19	.18	.12	.16	.24		.27	
	11 envschol	Spending significant amounts of time studying and on academic work	.11	.03	.08	.03	.25	.23	.20	.24	.28	.26		
												Cronbach's alpha: First-year=.74; Senior=.76		
Active and Collaborative Learning	1 clquest	Asked questions in class or contributed to class discussions		.32	.19	.12	.15	.14	.27					
	2 clpresn	Made a class presentation	.32		.35	.37	.14	.27	.18					
	3 classgrp	Worked with other students on projects during class	.19	.29		.35	.09	.20	.16					
	4 occgrp	Worked with classmates outside of class to prepare class ass	.18	.29	.34		.24	.24	.20					
	5 tutor	Tutored or taught other students (paid or voluntary)	.18	.14	.14	.29		.28	.20					
	6 commproj	Participated in a community-based project (e.g., service learning) as part of a regular course	.15	.23	.18	.25	.31		.18					
	7 oocideas	Discussed ideas from your readings or classes with others outside of class (students, family members, co-workers, etc.)	.30	.18	.18	.24	.20	.16						
												Cronbach's alpha: First-year=.67; Senior=.66		

NOTE: FY correlations are in the bottom, shaded half of each matrix. Some items are used in more than one scale. Correlations are calculated after variables are converted to a 100-point scale.

National Survey of Student Engagement Measurement Scales, Component Items, and Intercorrelation Tables (NSSE 2012 Data)

Scale	Variable	Description	Intercorrelation Table													
			1	2	3	4	5	6	7	8	9	10	11	12		
Student-Faculty Interaction	1 facgrade	Discussed grades or assignments with an instructor		.43	.44	.31	.28	.12								
	2 facideas	Discussed ideas from your readings or classes with faculty members outside of class	.42		.54	.32	.47	.24								
	3 facplans	Talked about career plans with a faculty member or advisor	.42	.47		.33	.45	.23								
	4 facfeed	Received prompt written or oral feedback from faculty on your academic performance	.34	.32	.29		.23	.08								
	5 facother	Worked with faculty members on activities other than coursework (committees, orientation, student life activities, etc.)	.29	.46	.38	.25		.34								
	6 resrch04	Work on a research project with a faculty member outside of course or program requirements	.11	.19	.14	.09	.22									
												Cronbach's alpha: First-year=.72; Senior=.73				
Enriching Educational Experiences	1 diffstu2	Had serious conversations with students who are very different from you in terms of their religious beliefs, political opinions, or personal values		.75	.25	.15	.19	.11	.16	.15	.13	.08	.10	.12		
	2 divrstud	Had serious conversations with students of a different race or ethnicity than your own	.72		.26	.13	.18	.09	.14	.14	.12	.07	.09	.09		
	3 envdivrs	Encouraging contact among students from different economic, social, and racial or ethnic backgrounds	.24	.25		.07	.16	.04	.07	.12	.03	.03	.04	.05		
	4 cocurr01	Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	.14	.12	.08		.05	.19	.27	.17	.15	.15	.10	.16		
	5 itacadem	Used an electronic medium (listserv, chat group, Internet, instant messaging, etc.) to discuss or complete an assignment	.19	.18	.15	.07		.07	.07	.12	.01	.02	.05	.05		
	6 intern04	Practicum, internship, field experience, co-op experience, or clinical assignment	.07	.06	.05	.06	.07		.35	.24	.15	.15	.14	.26		
	7 volntr04	Community service or volunteer work	.13	.13	.08	.21	.08	.16		.31	.23	.15	.13	.20		
	8 lrncom04	Participate in a learning community or some other formal program where groups of students take two or more classes together	.12	.11	.09	.10	.08	.13	.23		.13	.10	.13	.16		
	9 forlng04	Foreign language coursework	.09	.08	.05	.07	.05	.07	.13	.09		.28	.16	.14		
	10 stdabr04	Study abroad	.01	.01	.03	.03	.03	.13	.04	.08	.14		.18	.16		
	11 indstd04	Independent study or self-designed major	.03	.04	.04	.03	.06	.16	.07	.12	.09	.30		.22		
	12 snrx04	Culminating senior experience (capstone course, senior project or thesis, comprehensive exam, etc.)	.05	.05	.06	.06	.06	.20	.07	.13	.10	.26	.30			
												Cronbach's alpha: First-year=.59; Senior=.67				

NOTE: FY correlations are in the bottom, shaded half of each matrix. Some items are used in more than one scale. Correlations are calculated after variables are converted to a 100-point scale.

National Survey of Student Engagement Measurement Scales, Component Items, and Intercorrelation Tables (NSSE 2012 Data)

Scale	Variable	Description	Intercorrelation Table												
			1	2	3	4	5	6	7	8	9	10	11	12	
Supportive Campus Environment	1 envsocial	Providing the support you need to thrive socially		.48	.70	.31	.32	.31							
	2 envsuprt	Providing the support you need to help you succeed academically	.47		.47	.31	.48	.41							
	3 envnacad	Helping you cope with your non-academic responsibilities (work, family, etc.)	.70	.45		.24	.30	.31							
	4 envstu	Relationships with other students	.34	.27	.25		.47	.39							
	5 envfac	Relationships with faculty members	.29	.39	.27	.43		.55							
	6 envadm	Relationships with administrative personnel and offices	.31	.35	.30	.39	.62								

Cronbach's alpha: First-year=.79; Senior=.80

Deep Learning Scale and Sub-Scales

Scale	Variable	Description	Intercorrelation Table											
			1	2	3	4	5	6	7	8	9	10	11	12
Deep Learning	1 analyze	Analyzing the basic elements of an idea, experience, or theory, such as examining a particular case or situation in depth and considering its components		.63	.52	.54	.31	.26	.34	.24	.31	.25	.25	.30
	2 synthesz	Synthesizing and organizing ideas, information, or experiences into new, more complex interpretations and relationships	.61		.60	.55	.34	.31	.37	.29	.32	.27	.28	.32
	3 evaluate	Making judgments about the value of information, arguments, or methods, such as examining how others gathered and interpreted data and assessing the soundness of their conclusions	.50	.57		.54	.32	.32	.33	.27	.29	.26	.27	.30
	4 applying	Applying theories or concepts to practical problems or in new situations	.51	.53	.52		.28	.24	.35	.25	.29	.22	.23	.30
	5 integrat	Worked on a paper or project that required integrating ideas or information from various sources	.30	.31	.30	.26		.45	.38	.22	.28	.23	.25	.27
	6 divclass	Included diverse perspectives (different races, religions, genders, political beliefs, etc.) in class discussions or writing assignments	.29	.31	.31	.26	.42		.33	.25	.30	.28	.32	.30
	7 intideas	Put together ideas or concepts from different courses when completing assignments or during class discussions	.33	.36	.33	.32	.33	.37		.33	.37	.28	.28	.31
	8 facideas	Discussed ideas from your readings or classes with faculty members outside of class	.22	.27	.25	.23	.22	.27	.35		.38	.26	.24	.27
	9 oocideas	Discussed ideas from your readings or classes with others outside of class (students, family members, co-workers, etc.)	.30	.30	.28	.28	.25	.30	.36	.34		.35	.35	.37
	10 ownview	Examined the strengths and weaknesses of your own views on a topic or issue	.26	.28	.27	.24	.22	.28	.32	.28	.36		.64	.52
	11 othview	Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	.27	.28	.28	.25	.23	.31	.32	.25	.36	.61		.58
	12 chngview	Learned something that changed the way you understand an issue or concept	.30	.32	.31	.31	.26	.30	.33	.27	.36	.50	.57	

Cronbach's alpha: First-year=.85; Senior=.86

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National Survey of Student Engagement Measurement Scales, Component Items, and Intercorrelation Tables (NSSE 2012 Data)

Scale	Variable	Description	Intercorrelation Table												
			1	2	3	4	5	6	7	8	9	10	11	12	
Higher Order Thinking	1 analyze	Analyzing the basic elements of an idea, experience, or theory, such as examining a particular case or situation in depth and considering its components		.64	.53	.54									
	2 synthesize	Synthesizing and organizing ideas, information, or experiences into new, more complex interpretations and relationships	.62		.60	.55									
	3 evaluate	Making judgments about the value of information, arguments, or methods, such as examining how others gathered and interpreted data and assessing the soundness of their conclusions	.50	.57			0.54								
	4 applying	Applying theories or concepts to practical problems or in new situations	.52	.53	.52										
			Cronbach's alpha: First-year=.83; Senior=.84												
Integrative Learning	1 integrat	Worked on a paper or project that required integrating ideas or information from various sources		.45	.38	.22	.28								
	2 divclass	Included diverse perspectives (different races, religions, genders, political beliefs, etc.) in class discussions or writing assignments	.43		.33	.25	.30								
	3 intideas	Put together ideas or concepts from different courses when completing assignments or during class discussions	.34	.37		.33	.37								
	4 facideas	Discussed ideas from your readings or classes with faculty members outside of class	.22	.27	.35		.38								
	5 oocideas	Discussed ideas from your readings or classes with others outside of class (students, family members, co-workers, etc.)	.25	.30	.37	.34									
			Cronbach's alpha: First-year=.70; Senior=.71												
Reflective Learning	1 ownview	Examined the strengths and weaknesses of your own views on a topic or issue		.64	.52										
	2 othview	Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	.61		.58										
	3 chngview	Learned something that changed the way you understand an issue or concept	.50	.57											
			Cronbach's alpha: First-year=.80; Senior=.81												
<i>Campus Environment</i>															
Environment Emphases	1 envschol	Spending significant amounts of time studying and on academic work		.39	.27	.29	.21	.21	.19						
	2 envsuprt	Providing the support you need to help you succeed academically	.45		.29	.51	.48	.48	.37						
	3 envcompt	Using computers in academic work	.27	.29		.25	.19	.23	.19						
	4 envdivrs	Encouraging contact among students from different economic, social, and racial or ethnic backgrounds	.32	.50	.26		.50	.51	.35						
	5 envnacad	Helping you cope with your non-academic responsibilities (work, family, etc.)	.26	.45	.23	.53		.70	.39						
	6 envsocial	Providing the support you need to thrive socially	.27	.47	.27	.53	.70		.52						
	7 envevent	Attending campus events and activities (special speakers, cultural performances, athletic events, etc.)	.27	.42	.24	.41	.40	.51							
			Cronbach's alpha: First-year=.82; Senior=.80												

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National Survey of Student Engagement Measurement Scales, Component Items, and Intercorrelation Tables (NSSE 2012 Data)

Scale	Variable	Description	Intercorrelation Table													
			1	2	3	4	5	6	7	8	9	10	11	12		
Quality Campus Relationships	1 envstu	Relationships with other students		.47	.39											
	2 envfac	Relationships with faculty members	.44		.55											
	3 envadm	Relationships with administrative personnel and offices	.40	.62												

The Quality Campus Relationships scale is sometimes referred to as the Interpersonal Relationships scale.

Cronbach's alpha: First-year=.73; Senior=.72

Satisfaction

Overall Satisfaction	1 entirexp	How would you evaluate your entire educational experience at this institution?		.69												
	2 samecoll	If you could start over again, would you go to the same institution you are now attending?	.61													

Cronbach's alpha: First-year=.76; Senior=.81

Satisfaction plus Quality of Campus Relationships	1 entirexp	How would you evaluate your entire educational experience at this institution?		.69	.54	.38	.51	.43								
	2 samecoll	If you could start over again, would you go to the same institution you are now attending?	.61		.46	.35	.43	.40								
	3 advise	Overall, how would you evaluate the quality of academic advising you have received at your institution?	.54	.43		.27	.44	.46								
	4 envstu	Relationships with other students	.39	.39	.29		.47	.39								
	5 envfac	Relationships with faculty members	.45	.34	.40	.43		.55								
	6 envadm	Relationships with administrative personnel and offices	.39	.34	.44	.39	.62									

Cronbach's alpha: First-year=.82; Senior=.83

Student Self-Reported Gains

Gains in Practical Competence	1 gnwork	Acquiring job or work-related knowledge and skills		.51	.43	.45	.49									
	2 gnothers	Working effectively with others	.50		.53	.49	.53									
	3 gncmpts	Using computing and information technology	.44	.53		.55	.44									
	4 gnquant	Analyzing quantitative problems	.46	.52	.57		.51									
	5 gnprobsv	Solving complex real-world problems	.47	.51	.43	.51										

Cronbach's alpha: First-year=.83; Senior=.83

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National Survey of Student Engagement Measurement Scales, Component Items, and Intercorrelation Tables (NSSE 2012 Data)

Scale	Variable	Description	Intercorrelation Table													
			1	2	3	4	5	6	7	8	9	10	11	12		
Gains in General Education	1 gnwrite	Writing clearly and effectively		.71	.51	.64										
	2 gnspeak	Speaking clearly and effectively	.69		.47	.61										
	3 gngenled	Acquiring a broad general education	.50	.44		.50										
	4 gnanaly	Thinking critically and analytically	.63	.60	.52											
			Cronbach's alpha: First-year=.84; Senior=.84													
Gains in Personal and Social Development	1 gnethics	Developing a personal code of values and ethics		.66	.60	.41	.53	.64	.53							
	2 gnself	Understanding yourself	.65		.62	.42	.64	.54	.47							
	3 gndivers	Understanding people of other racial and ethnic backgrounds	.60	.61		.44	.48	.57	.46							
	4 gncitizn	Voting in local, state, or national elections	.38	.36	.39		.37	.47	.45							
	5 gningq	Learning effectively on your own	.53	.63	.49	.36		.43	.33							
	6 gncommun	Contributing to the welfare of your community	.61	.49	.53	.44	.43		.58							
	7 gnspirit	Developing a deepened sense of spirituality	.53	.46	.45	.42	.35	.57								
			Cronbach's alpha: First-year=.87; Senior=.88													
<i>Scalelets</i>																
Course Challenge	1 workhard	Worked harder than you thought you could to meet an instructor's standards or expectations		.12	.32	.25	.29									
	2 clunprep*	Come to class without completing readings or assignments (*Reverse coded)	.11		.17	.15	.11									
	3 exams	To what extent have...your examinations during the current school year challenged you to do you best work?	.30	.12		.24	.31									
	4 acadpr01	Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)	.24	.14	.25		.27									
	5 envschol	Spending significant amounts of time studying and on academic work	.28	.09	.30	.26										
			Cronbach's alpha: First-year=.56; Senior=.58													

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National Survey of Student Engagement Measurement Scales, Component Items, and Intercorrelation Tables (NSSE 2012 Data)

Scale	Variable	Description	Intercorrelation Table													
			1	2	3	4	5	6	7	8	9	10	11	12		
Writing	1 rewrapap	Prepared two or more drafts of a paper or assignment before turning it in		.41	.22	.20	.07									
	2 integrat	Worked on a paper or project that required integrating ideas or information from various sources	.45		.19	.30	.17									
	3 writemor	Number of written papers or reports of 20 pages or more	.12	.09		.43	.16									
	4 writemid	Number of written papers or reports between 5 and 19 pages	.19	.26	.31		.38									
	5 writesml	Number of written papers or reports of fewer than 5 pages	.06	.15	.03	.23										
			Cronbach's alpha: First-year=.53; Senior=.61													
Active-Learning Experiences	1 clquest	Asked questions in class or contributed to class discussions		.32	.15											
	2 clpresen	Made a class presentation	.32		.27											
	3 commproj	Participated in a community-based project (e.g., service learning) as part of a regular course	.15	.23												
			Cronbach's alpha: First-year=.48; Senior=.49													
Collaborative Learning Experience	1 classgrp	Worked with other students on projects during class		.35	.09	.16										
	2 occgrp	Worked with classmates outside of class to prepare class assignments	.34		.24	.20										
	3 tutor	Tutored or taught other students (paid or voluntary)	.14	.29		.20										
	4 oocideas	Discussed ideas from your readings or classes with others outside of class (students, family members, co-workers, etc.)	.18	.24	.20											
			Cronbach's alpha: First-year=.55; Senior=.51													
Course-Related Interactions with Faculty	1 facgrade	Discussed grades or assignments with an instructor		.43	.31											
	2 facideas	Discussed ideas from your readings or classes with faculty members outside of class	.42		.32											
	3 facfeed	Received prompt written or oral feedback from faculty on your academic performance	.34	.32												
			Cronbach's alpha: First-year=.63; Senior=.62													
Out-of-Class Interactions with Faculty	1 facplans	Talked about career plans with a faculty member or advisor		.45	.23											
	2 facother	Worked with faculty members on activities other than coursework (committees, orientation, student life activities, etc.)	.38		.34											
	3 resrch04	Work on a research project with a faculty member outside of course or program requirements	.14	.22												
			Cronbach's alpha: First-year=.50; Senior=.60													

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National Survey of Student Engagement Measurement Scales, Component Items, and Intercorrelation Tables (NSSE 2012 Data)

Scale	Variable	Description	Intercorrelation Table														
			1	2	3	4	5	6	7	8	9	10	11	12			
Use of Information Technology	1 itacadem	Used an electronic medium (listserv, chat group, Internet, instant messaging, etc.) to discuss or complete an assignment		.32	.21												
	2 email	Used e-mail to communicate with an instructor	.30		.15												
	3 envmpt	Using computers in academic work	.21	.19													
			Cronbach's alpha: First-year=.47; Senior=.47														
Support for Student Success	1 envsupt	Providing the support you need to help you succeed academically		.48	.48												
	2 envnac	Helping you cope with your non-academic responsibilities (work, family, etc.)	.45		.70												
	3 envsocial	Providing the support you need to thrive socially	.47	.70													
			Cronbach's alpha: First-year=.78; Senior=.79														
Varied Educational Experiences	1 intern04	Practicum, internship, field experience, co-op experience, or clinical assignment		.35	.15	.15	.14	.26	.24	.19	.14						
	2 volntr04	Community service or volunteer work	.16		.23	.15	.13	.20	.31	.27	.18						
	3 forlng04	Foreign language coursework	.07	.13		.28	.16	.15	.13	.15	.17						
	4 stdabr04	Study abroad	.13	.04	.14		.18	.16	.10	.15	.12						
	5 indstd04	Independent study or self-designed major	.16	.07	.09	.30		.22	.13	.10	.07						
	6 snrx04	Culminating senior experience (capstone course, senior project or thesis, comprehensive exam, etc.)	.20	.07	.10	.26	.30		.16	.16	.12						
	7 lrncom04	Participate in a learning community or some other formal program where groups of students take two or more classes together	.13	.23	.09	.08	.12	.13		.18	.13						
	8 cocurr01	Participating in co-curricular activities (organizations, campus publications, student government, etc.)	.06	.21	.07	.03	.03	.06	.10		.22						
	9 envevent	Attending campus events and activities (special speakers, cultural performances, athletic events, etc.)	.03	.14	.09	.00	.00	.03	.11	.17							
			Cronbach's alpha: First-year=.50; Senior=.65														
Diversity	1 divrstud	Had serious conversations with students of a different race or ethnicity than your own		.75	.26												
	2 diffstu2	Had serious conversations with students who are very different from you in terms of their religious beliefs, political opinions, or personal values	.72		.25												
	3 envdivrs	Encouraging contact among students from different economic, social, and racial or ethnic backgrounds	.26	.24													
			Cronbach's alpha: First-year=.68; Senior=.68														

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