
Analysis of FHSU Results for the 2006 National Survey of Student Engagement by Major Department

A Study Detailing Engagement
Means for Seniors at the Major
Department Level

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1. Analytic Parameters

These analyses are predicated on the following parameters, unless otherwise indicated:

Dependent measures:	NSSE indexes and questions
Independent variable:	Major department
Sample\Population:	Students with class rank of senior
Notations:	Top five departments are noted in green and the bottom five departments are noted in yellow for each index. Departments with percentage of completion higher than 33% noted in blue.

2. Results

The sampling (n = 457) is randomly drawn from the larger senior population (N = 1822) submitted for analysis. The sample included 308 female students and 148 male students. The racial composition of this sample is noted below.

Native American	Asian	African American	White	Hispanic	Other/Not Identified
2	14	8	401	8	24

Active department recruitment of senior students to take NSSE is always helpful. The following table details (by department) the number of seniors in the sample, the number of seniors actually participating, and the percentage of completion. Departments with greater than 33% participation are noted in blue.

Major Department		n	Sample	% Response
COAS (266/920 = 28.9%)	101 Art	17	89	19%
	104 Chemistry	4	12	33%
	117 Communication Studies	7	27	26%
	107 English	7	19	37%
	120 General Studies	89	305	29%
	105 Geosciences	6	21	29%
	109 History	9	43	21%
	118 Information Networking and Telecommunications	24	68	35%

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	110 Mathematics and Computer Science	6	22	27%
	108 Modern Languages	1	4	25%
	111 Music	8	29	28%
	112 Philosophy	3	9	33%
	113 Physics	4	9	44%
	114 Political Science	31	107	29%
	115 Psychology	17	57	30%
	116 Sociology and Social Work	33	99	33%
COBL (97\308 = 31.5%)	403 Economics and Finance	16	38	42%
	405 Leadership Studies	16	51	31%
	401 Management and Marketing	20	108	19%
	404 Management Information Systems	45	111	41%
COET (38\159 = 23.9%)	235 Teacher Education	30	109	28%
	233 Technology Studies	8	50	16%
CHLS (107\434 = 24.6%)	300 Agriculture	14	61	23%
	305 Allied Health	16	85	19%
	302 Biological Sciences	13	48	27%
	317 Communication Disorders	8	17	47%
	331 Health and Human Performance	14	130	11%
	340 Nursing	42	93	45%

Analysis 2.1: Level of Academic Challenge. This analysis explored the difference between senior students of different major departments. This index measures challenging intellectual and creative work deemed central to student learning and collegiate quality. Colleges and universities promote high levels of student achievement by emphasizing the importance of academic effort and setting high expectations for student performance. This index includes the following items:

- Preparing for class (studying, reading, writing, rehearsing, etc. related to academic program)
- Number of assigned textbooks, books, or book-length packs of course readings
- Number of written papers or reports of 20 pages or more; number of written papers or reports of between 5 and 19 pages; and number of written papers or reports of fewer than 5 pages
- Coursework emphasizing analysis of the basic elements of an idea, experience or theory
- Coursework emphasizing synthesis and organizing of ideas, information, or experiences into new, more complex interpretations and relationships
- Coursework emphasizing the making of judgments about the value of information or arguments
- Coursework emphasizing application of theories or concepts to practical problems or in new situations
- Working harder than you thought you could to meet an instructor's standards or expectations
- Campus environment emphasizing time studying and on academic work

Peer Mean	NSSE Mean	n	FHSU Mean	Std Dev	Lower Control Limit	Upper Control Limit
55.4	55.8	486	54.15	14.22	39.93	68.37

Major Department		n	Mean	Std Dev	Minimum	Maximum
COAS	101 Art	16	54.05	15.11	24.57	86.36
	104 Chemistry	4	49.24	8.61	37.77	58.66
	117 Communication Studies	7	48.99	12.51	26.30	64.29
	107 English	7	64.55	9.06	50.32	74.46
	120 General Studies	87	54.77	13.96	24.40	92.80
	105 Geosciences	5	48.36	12.68	33.03	64.50
	109 History	6	47.11	11.10	34.20	65.80
	118 Information Networking and Telecommunications	23	52.16	9.29	38.74	67.17
	110 Mathematics and Computer Science	5	55.50	15.41	38.42	76.95
	108 Modern Languages	1	66.02		66.02	66.02

	111 Music	8	45.07	15.44	24.52	68.61
	112 Philosophy	3	64.11	7.50	55.63	69.91
	113 Physics	4	44.97	6.31	36.69	50.65
	114 Political Science	31	57.95	12.30	37.87	84.09
	115 Psychology	17	57.62	12.50	28.70	80.19
	116 Sociology and Social Work	32	57.65	14.66	23.38	85.06
COBL	403 Economics and Finance	16	47.03	10.97	30.71	70.45
	405 Leadership Studies	16	61.32	13.96	38.96	90.84
	401 Management and Marketing	20	50.89	13.70	26.30	83.01
	404 Management Information Systems	44	46.32	13.50	13.46	75.87
COET	235 Teacher Education	28	60.15	13.55	37.13	85.61
	233 Technology Studies	8	45.80	23.06	23.27	88.64
CHLS	300 Agriculture	12	45.50	13.98	33.12	85.07
	305 Allied Health	14	54.86	14.26	27.06	81.82
	302 Biological Sciences	12	57.49	15.21	34.96	79.44
	317 Communication Disorders	8	55.99	12.28	38.20	72.84
	331 Health and Human Performance	13	45.56	13.28	21.00	77.92
	340 Nursing	39	61.33	13.58	33.12	87.01

Analysis 2.2: Active and Collaborative Learning. This analysis explored the difference between senior students of different major departments. Students learn more when they are intensely involved in their education and asked to think about what they are learning in different settings. Collaborating with others in solving problems or mastering difficult material prepares students for the messy, unscripted problems they will encounter daily during and after college. This index includes the following items:

- Asked questions in class or contributed to class discussions
- Made a class presentation
- Worked with other students on projects during class
- Worked with classmates outside of class to prepare class assignments
- Tutored or taught other students

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- Participated in a community-based project as part of a regular course
- Discussed ideas from your readings or classes with others outside of class (students, family members, co-workers, etc.)

Peer Mean	NSSE Mean	n	FHSU Mean	Std Dev	Lower Control Limit	Upper Control Limit
50.9	50.4	509	44.61	18.28	26.33	62.89

Major Department		n	Mean	Std Dev	Minimum	Maximum
COAS	101 Art	17	48.81	20.98	4.76	80.95
	104 Chemistry	4	52.38	20.20	33.33	76.19
	117 Communication Studies	7	51.70	23.56	19.05	80.95
	107 English	7	54.42	8.18	47.62	71.43
	120 General Studies	89	32.87	18.37	4.76	95.24
	105 Geosciences	6	50.99	12.43	38.10	71.43
	109 History	9	40.83	14.87	23.81	66.67
	118 Information Networking and Telecommunications	24	44.64	15.18	9.52	71.43
	110 Mathematics and Computer Science	6	42.73	13.64	27.78	61.90
	108 Modern Languages	1	52.38		52.38	52.38
	111 Music	8	47.02	12.84	33.33	66.67
	112 Philosophy	3	49.21	7.27	42.86	57.14
	113 Physics	4	51.19	9.01	38.10	57.14
	114 Political Science	31	42.70	17.71	.00	90.48
	115 Psychology	17	50.70	13.57	23.81	80.95
	116 Sociology and Social Work	33	35.28	13.22	14.29	66.67
COBL	403 Economics and Finance	16	45.04	14.29	11.11	61.90
	405 Leadership Studies	16	60.12	23.32	9.52	100.00
	401 Management and Marketing	20	42.14	14.68	9.52	66.67

	404 Management Information Systems	46	45.89	10.29	23.81	71.43
COET	235 Teacher Education	30	65.24	15.92	38.10	100.00
	233 Technology Studies	8	48.81	21.86	14.29	76.19
CHLS	300 Agriculture	14	47.79	12.12	33.33	66.67
	305 Allied Health	16	50.89	18.79	28.57	85.71
	302 Biological Sciences	13	50.18	19.98	9.52	76.19
	317 Communication Disorders	8	56.55	8.98	47.62	76.19
	331 Health and Human Performance	14	40.48	16.36	23.81	76.19
	340 Nursing	42	41.16	19.02	4.76	90.48

Analysis 2.3: Student-Faculty Interaction. This analysis explored the difference between senior students of different major departments. Students learn firsthand how experts think about and solve practical problems by interacting with faculty members inside and outside the classroom. As a result, their teachers become role models, mentors, and guides for continuous, life-long learning. This index includes the following items:

- Discussed grades or assignments with an instructor
- Talked about career plans with a faculty member or advisor
- Discussed ideas from your readings or classes with faculty members outside of class
- Worked with faculty members on activities other than coursework (committees, orientation, student-life activities, etc.)
- Received prompt written or oral feedback from faculty on your academic performance
- Worked with a faculty member on a research project outside of course or program requirements

Peer Mean	NSSE Mean	n	FHSU Mean	Std Dev	Lower Control Limit	Upper Control Limit
		497	44.19	19.30	24.89	63.49

Major Department		n	Mean	Std Dev	Minimum	Maximum
COAS	101 Art	16	52.08	18.73	13.33	80.00
	104 Chemistry	4	61.67	8.39	53.33	73.33
	117 Communication Studies	7	44.76	12.00	26.67	60.00

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	107 English	7	61.90	6.34	53.33	73.33
	120 General Studies	88	34.92	17.42	.00	93.33
	105 Geosciences	5	49.33	16.06	33.33	66.67
	109 History	8	41.39	19.37	20.00	80.00
	118 Information Networking and Telecommunications	24	43.80	17.89	13.33	73.33
	110 Mathematics and Computer Science	6	38.89	22.08	.00	60.00
	108 Modern Languages	1	53.33		53.33	53.33
	111 Music	8	44.17	21.36	6.67	80.00
	112 Philosophy	3	60.00	11.55	46.67	66.67
	113 Physics	4	38.33	17.53	13.33	53.33
	114 Political Science	31	46.67	20.22	13.33	100.00
	115 Psychology	17	60.39	20.34	20.00	86.67
	116 Sociology and Social Work	32	43.33	18.55	13.33	80.00
COBL	403 Economics and Finance	16	35.83	19.30	.00	66.67
	405 Leadership Studies	16	55.00	25.47	13.33	100.00
	401 Management and Marketing	20	42.00	18.37	6.67	73.33
	404 Management Information Systems	45	39.85	16.36	13.33	80.00
COET	235 Teacher Education	30	45.33	21.75	20.00	100.00
	233 Technology Studies	8	46.67	8.73	33.33	60.00
CHLS	300 Agriculture	12	48.89	12.17	26.67	66.67
	305 Allied Health	15	55.11	22.60	13.33	86.67
	302 Biological Sciences	12	42.78	21.92	13.33	86.67
	317 Communication Disorders	8	60.83	13.54	33.33	80.00
	331 Health and Human Performance	14	41.43	16.78	6.67	60.00
	340 Nursing	40	44.67	16.89	13.33	86.67

Analysis 2.4: Enriching Educational Experiences. This analysis explored the difference between senior students of different major departments. Complementary learning opportunities enhance academic programs. Diversity experiences teach students valuable things about themselves and others. Technology facilitates collaboration between peers and instructors. Internships, community service, and senior capstone courses provide opportunities to integrate and apply knowledge. This index includes the following items:

- Participating in co-curricular activities (organizations, publications, student government, sports)
- Practicum, internship, field experience, co-op experience, or clinical assignment
- Community service or volunteer work
- Foreign language coursework & study abroad
- Independent study or self-designed major
- Culminating senior experience (capstone course, senior project or thesis, comprehensive exam, etc.)
- Serious conversations with students of different religious beliefs, political opinions, or personal values
- Serious conversations with students of a different race or ethnicity
- Using electronic technology to discuss or complete an assignment
- Campus environment encouraging contact among students from different economic, social, and racial or ethnic backgrounds
- Participate in a learning community or some other formal program where groups of students take two or more classes together

Peer Mean	NSSE Mean	n	FHSU Mean	Std Dev	Lower Control Limit	Upper Control Limit
37.5	39.9	475	33.44	15.83	17.61	49.27

Major Department		n	Mean	Std Dev	Minimum	Maximum
COAS	101 Art	15	33.76	16.88	11.11	65.08
	104 Chemistry	4	40.08	15.67	23.41	56.75
	117 Communication Studies	7	31.63	13.09	16.67	53.97
	107 English	7	52.55	6.22	41.27	59.52
	120 General Studies	85	29.29	15.54	2.78	94.44
	105 Geosciences	4	31.45	9.90	17.86	40.08
	109 History	6	30.82	13.92	13.89	48.41
	118 Information Networking and Telecommunications	22	40.08	19.70	11.11	75.79

	110 Mathematics and Computer Science	5	29.37	6.45	19.44	53.97
	108 Modern Languages	1	76.19		76.19	76.19
	111 Music	7	22.83	10.00	3.03	35.32
	112 Philosophy	3	22.49	5.78	17.86	28.97
	113 Physics	4	38.00	7.31	31.75	48.41
	114 Political Science	31	34.52	18.83	8.33	91.67
	115 Psychology	16	32.76	15.69	12.30	60.71
	116 Sociology and Social Work	31	38.71	14.52	8.33	67.86
COBL	403 Economics and Finance	15	21.84	12.81	3.03	44.44
	405 Leadership Studies	16	44.41	18.65	3.97	78.57
	401 Management and Marketing	20	30.57	14.84	5.56	62.30
	404 Management Information Systems	43	28.54	13.53	3.97	59.13
COET	235 Teacher Education	28	38.02	12.93	13.89	62.30
	233 Technology Studies	8	33.53	16.31	13.89	59.13
CHLS	300 Agriculture	12	28.97	14.76	10.32	53.97
	305 Allied Health	14	42.77	12.30	23.41	61.11
	302 Biological Sciences	12	32.21	16.76	11.11	75.40
	317 Communication Disorders	8	36.56	13.70	20.63	56.35
	331 Health and Human Performance	13	32.23	12.64	12.30	51.19
	340 Nursing	38	34.07	14.47	11.11	63.49

Analysis 2.5: Supportive Campus Environment. This analysis explored the difference between senior students. Students perform better and are more satisfied at colleges that are committed to their success and cultivate positive working and social relations among different groups on campus. This index includes the following items:

- Campus environment provides the support you need to help you succeed academically
- Campus environment helps you cope with your non-academic responsibilities (work, family, etc.)

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- Campus environment provides the support you need to thrive socially
- Quality of relationships with other students
- Quality of relationships with faculty members
- Quality of relationships with administrative personnel and offices

Peer Mean	NSSE Mean	n	FHSU Mean	Std Dev	Lower Control Limit	Upper Control Limit
56.6	56.6	469	59.06	18.18	40.88	77.24

Major Department		n	Mean	Std Dev	Minimum	Maximum
COAS	101 Art	15	62.59	21.05	22.22	94.44
	104 Chemistry	4	65.97	13.30	47.22	77.78
	117 Communication Studies	7	63.89	18.70	30.56	83.33
	107 English	7	60.32	13.20	38.89	77.78
	120 General Studies	83	60.52	20.19	11.11	100.00
	105 Geosciences	4	77.78	15.21	61.11	94.44
	109 History	6	54.17	9.42	44.44	69.44
	118 Information Networking and Telecommunications	22	56.04	14.84	30.56	86.67
	110 Mathematics and Computer Science	5	48.33	15.16	30.56	66.67
	108 Modern Languages	1	52.78		52.78	52.78
	111 Music	6	60.19	5.74	55.56	69.44
	112 Philosophy	3	64.81	6.99	58.33	72.22
	113 Physics	4	54.86	20.21	36.11	80.56
	114 Political Science	31	58.87	20.78	2.78	97.22
	115 Psychology	16	59.03	15.20	11.11	77.78
	116 Sociology and Social Work	31	56.00	20.28	8.33	100.00
COBL	403 Economics and Finance	14	51.19	15.97	25.00	75.00
	405 Leadership Studies	15	60.93	20.75	25.00	100.00
	401 Management and Marketing	19	61.40	12.93	30.56	83.33

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	404 Management Information Systems	43	56.40	17.82	.00	88.89
COET	235 Teacher Education	28	61.31	19.33	16.67	100.00
	233 Technology Studies	8	61.81	9.36	44.44	75.00
CHLS	300 Agriculture	12	58.33	14.98	25.00	77.78
	305 Allied Health	14	65.28	18.35	30.56	100.00
	302 Biological Sciences	12	48.38	18.74	22.22	80.56
	317 Communication Disorders	8	68.40	15.57	44.44	94.44
	331 Health and Human Performance	13	57.69	14.17	38.89	91.67
	340 Nursing	38	58.85	20.37	22.22	100.00