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# **Analysis of FHSU Results for the 2007 National Survey of Student Engagement by Major Department**

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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 = 440) is randomly drawn from the larger senior population (N = 1806) submitted for analysis. The sample included 287 female students and 153 male students. The racial composition of this sample is noted below.

<b>Native American</b>	<b>Asian</b>	<b>African American</b>	<b>White</b>	<b>Hispanic</b>	<b>Other/Not Identified</b>
1	13	9	376	15	26

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.

<b>Major Department</b>		<b>n</b>	<b>Sample</b>	<b>% Response</b>
COAS (245\893 = 27.4%)	101 Art	21	85	24.7%
	104 Chemistry	5	13	38.4%
	117 Communication Studies	7	30	23.3%
	107 English	6	17	35.2%
	120 General Studies	75	273	27.4%
	105 Geosciences	6	19	31.6%
	109 History	7	36	19.4%
	118 Information Networking and Telecommunications	17	73	23.3%

Analysis of FHSU Results for the 2007 National Survey of Student Engagement by Major Department

	121 Justice Studies	20	82	24.4%
	110 Mathematics and Computer Science	10	23	43.5%
	108 Modern Languages	2	8	25.0%
	111 Music	10	33	30.3%
	112 Philosophy	2	12	16.7%
	113 Physics	4	13	30.8%
	114 Political Science	9	22	40.9%
	115 Psychology	16	51	31.4%
	116 Sociology and Social Work	28	103	27.2%
COBL (76\330 = 23.0%)	403 Economics and Finance	10	45	22.2%
	405 Leadership Studies	12	48	25.0%
	401 Management and Marketing	28	143	19.6%
	404 Management Information Systems	26	94	27.7%
COET (38\149 = 25.5%)	235 Teacher Education	30	101	28.0%
	233 Technology Studies	8	48	16.7%
CHLS (77\431 = 17.9%)	300 Agriculture	14	69	20.3%
	305 Allied Health	8	65	12.3%
	302 Biological Sciences	13	48	27.1%
	317 Communication Disorders	6	19	31.6%
	331 Health and Human Performance	14	123	11.4%
	340 Nursing	22	107	20.6%

**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
54.2	55.6	429	53.87	14.01	39.86	67.88

Major Department		n	Mean	Std Dev	Minimum	Maximum
COAS	101 Art	21	50.21	15.40	25.76	79.76
	104 Chemistry	5	48.98	11.64	35.93	62.01
	117 Communication Studies	7	46.27	5.81	36.90	52.38
	107 English	6	53.16	10.71	40.48	66.99
	120 General Studies	75	55.16	13.28	29.16	92.42
	105 Geosciences	6	55.38	5.47	51.08	63.53
	109 History	6	45.65	12.98	28.57	65.80
	118 Information Networking and Telecommunications	17	54.46	13.13	32.36	82.38
	121 Justice Studies	19	61.55	10.30	39.62	79.70
	110 Mathematics and Computer Science	10	52.40	11.17	35.17	66.23

	108 Modern Languages	2	69.91	18.82	56.60	83.23
	111 Music	9	48.18	14.14	35.17	66.23
	112 Philosophy	2	58.39	1.45	57.36	59.42
	113 Physics	4	52.11	7.21	43.51	59.09
	114 Political Science	9	66.08	18.11	33.12	83.77
	115 Psychology	16	54.23	14.88	28.93	79.44
	116 Sociology and Social Work	27	59.07	14.38	34.52	87.88
COBL	403 Economics and Finance	10	51.51	9.84	41.23	72.94
	405 Leadership Studies	12	61.02	10.19	47.86	81.99
	401 Management and Marketing	28	46.90	14.47	17.21	71.32
	404 Management Information Systems	26	48.07	10.67	29.87	67.53
COET	235 Teacher Education	30	60.31	15.20	29.87	83.74
	233 Technology Studies	7	56.69	16.31	31.60	80.19
CHLS	300 Agriculture	14	42.81	12.38	26.30	65.47
	305 Allied Health	8	48.95	16.97	25.73	75.00
	302 Biological Sciences	13	48.29	16.85	20.24	71.86
	317 Communication Disorders	6	56.28	12.07	40.69	74.24
	331 Health and Human Performance	13	56.50	12.59	34.20	79.44
	340 Nursing	20	55.91	12.25	34.82	75.04

**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

# Analysis of FHSU Results for the 2007 National Survey of Student Engagement by Major Department

- Tutored or taught other students
- 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
51.1	50.1	439	45.85	18.94	64.79	29.91

Major Department		n	Mean	Std Dev	Minimum	Maximum
COAS	101 Art	21	51.47	20.90	4.76	90.48
	104 Chemistry	5	49.52	13.30	33.33	61.90
	117 Communication Studies	7	51.02	11.89	33.33	66.67
	107 English	6	54.76	8.91	47.62	71.43
	120 General Studies	75	34.33	18.03	4.76	100.00
	105 Geosciences	6	49.21	7.78	38.10	57.14
	109 History	7	32.14	16.28	9.52	58.33
	118 Information Networking and Telecommunications	19	47.24	17.02	19.05	100.00
	121 Justice Studies	20	39.17	16.25	9.52	76.19
	110 Mathematics and Computer Science	10	53.81	11.23	33.33	66.67
	108 Modern Languages	2	57.14	26.94	38.10	76.19
	111 Music	10	50.24	16.28	16.67	71.43
	112 Philosophy	2	54.76	3.37	52.38	57.14
	113 Physics	4	58.33	13.68	47.62	76.19
	114 Political Science	9	62.43	16.23	42.86	100.00
	115 Psychology	16	42.56	16.63	9.52	85.71
	116 Sociology and Social Work	28	34.52	19.38	9.52	85.71
COB	403 Economics and Finance	10	48.10	17.73	19.05	76.19
	405 Leadership Studies	12	48.02	10.44	28.57	66.67

	401 Management and Marketing	28	43.88	13.49	19.05	76.19
	404 Management Information Systems	26	47.80	13.63	19.05	66.67
COET	235 Teacher Education	30	66.67	14.37	38.10	85.71
	233 Technology Studies	8	45.09	19.58	19.05	80.95
CHLS	300 Agriculture	14	48.30	14.57	28.57	80.95
	305 Allied Health	8	44.05	25.04	14.29	80.95
	302 Biological Sciences	13	46.15	17.54	23.81	76.19
	317 Communication Disorders	6	61.90	18.81	33.33	80.95
	331 Health and Human Performance	14	59.09	12.23	42.86	80.95
	340 Nursing	22	41.05	23.12	4.76	100.00

**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
NA	NA	434	44.73	20.70	24.03	65.43

Major Department		n	Mean	Std Dev	Minimum	Maximum
COAS	101 Art	21	47.30	23.08	6.67	93.33
	104 Chemistry	5	52.00	29.59	13.33	86.67

Analysis of FHSU Results for the 2007 National Survey of Student Engagement by Major Department

	117 Communication Studies	7	34.29	15.60	6.67	53.33
	107 English	6	44.44	21.77	20.00	80.00
	120 General Studies	75	36.41	18.00	13.33	93.33
	105 Geosciences	6	64.44	12.41	46.67	80.00
	109 History	6	23.33	13.82	13.33	46.67
	118 Information Networking and Telecommunications	17	45.49	23.48	13.33	100.00
	121 Justice Studies	20	40.11	15.90	20.00	80.00
	110 Mathematics and Computer Science	10	43.33	19.94	13.33	66.67
	108 Modern Languages	2	66.67	28.28	46.67	86.67
	111 Music	10	56.00	20.17	13.33	86.67
	112 Philosophy	2	53.33	18.86	40.00	66.67
	113 Physics	4	65.00	27.42	40.00	100.00
	114 Political Science	9	71.85	27.64	33.33	100.00
	115 Psychology	16	52.08	10.10	33.33	66.67
	116 Sociology and Social Work	28	37.38	21.19	6.67	93.33
COBL	403 Economics and Finance	10	44.00	23.77	6.67	73.33
	405 Leadership Studies	12	45.00	16.85	26.67	80.00
	401 Management and Marketing	28	34.05	11.38	13.33	60.00
	404 Management Information Systems	26	44.87	19.74	13.33	86.67
COET	235 Teacher Education	30	50.44	19.78	13.33	80.00
	233 Technology Studies	7	46.67	23.44	13.33	86.67
CHLS	300 Agriculture	14	48.57	13.69	33.33	80.00
	305 Allied Health	8	51.66	23.30	20.00	80.00
	302 Biological Sciences	13	40.51	16.66	13.33	73.33
	317 Communication Disorders	6	64.44	18.70	33.33	86.67

	331 Health and Human Performance	13	63.08	19.17	40.00	93.33
	340 Nursing	22	46.06	20.25	13.33	100.00

**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
37.1	39.9	424	34.09	16.82	17.27	50.91

Major Department		n	Mean	Std Dev	Minimum	Maximum
COAS	101 Art	20	30.02	18.11	2.78	61.90
	104 Chemistry	5	45.08	26.09	12.30	71.83
	117 Communication Studies	7	30.78	16.54	11.90	54.76
	107 English	6	38.29	17.79	16.67	67.86
	120 General Studies	74	29.69	15.73	2.78	77.78

Analysis of FHSU Results for the 2007 National Survey of Student Engagement by Major Department

	105 Geosciences	6	38.76	14.00	14.29	56.75
	109 History	6	27.78	12.83	11.11	45.24
	118 Information Networking and Telecommunications	17	39.42	17.48	13.89	77.38
	121 Justice Studies	19	37.84	16.81	13.89	75.00
	110 Mathematics and Computer Science	10	32.54	13.80	16.67	60.71
	108 Modern Languages	2	60.12	32.27	37.30	82.94
	111 Music	8	29.51	23.88	2.78	80.16
	112 Philosophy	2	56.35	1.68	55.16	57.54
	113 Physics	4	42.86	6.00	37.30	51.19
	114 Political Science	9	63.36	23.39	13.49	84.13
	115 Psychology	15	33.17	10.67	17.86	57.94
	116 Sociology and Social Work	27	33.47	16.44	8.33	67.46
COBL	403 Economics and Finance	10	24.64	13.63	11.11	59.13
	405 Leadership Studies	12	40.47	16.96	11.11	66.67
	401 Management and Marketing	28	30.19	13.90	11.11	62.30
	404 Management Information Systems	26	30.66	15.49	2.78	62.30
COET	235 Teacher Education	30	39.83	11.43	17.86	57.94
	233 Technology Studies	7	29.66	18.35	6.75	52.78
CHLS	300 Agriculture	14	30.95	11.21	12.30	49.21
	305 Allied Health	8	38.44	19.22	13.89	66.67
	302 Biological Sciences	13	32.14	20.53	3.97	73.02
	317 Communication Disorders	6	37.96	16.77	12.30	59.52
	331 Health and Human Performance	13	38.64	10.00	21.43	50.79
	340 Nursing	19	30.35	17.09	2.78	66.67

**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.)
- 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
57.6	56.9	422	57.30	18.13	39.17	75.43

Major Department		n	Mean	Std Dev	Minimum	Maximum
COAS	101 Art	20	61.39	14.81	36.11	88.89
	104 Chemistry	5	70.00	23.19	36.11	94.44
	117 Communication Studies	7	52.38	22.59	27.78	94.44
	107 English	6	57.41	6.95	50.00	69.44
	120 General Studies	74	56.43	16.82	13.89	94.44
	105 Geosciences	6	68.52	11.06	58.33	88.89
	109 History	6	38.89	15.01	16.67	55.56
	118 Information Networking and Telecommunications	17	54.90	20.42	27.78	100.00
	121 Justice Studies	19	64.30	22.45	25.00	100.00
	110 Mathematics and Computer Science	10	59.44	14.24	30.56	80.56
	108 Modern Languages	2	69.44	7.86	63.89	75.00
	111 Music	8	55.90	15.74	36.11	88.89
	112 Philosophy	2	61.11	3.93	58.33	63.89
	113 Physics	4	63.19	15.28	41.67	77.78
	114 Political Science	9	61.73	26.74	19.44	97.22

Analysis of FHSU Results for the 2007 National Survey of Student Engagement by Major Department

	115 Psychology	14	57.14	20.35	11.11	88.89
	116 Sociology and Social Work	27	58.85	20.40	22.22	97.22
COBL	403 Economics and Finance	10	58.89	14.27	41.67	83.33
	405 Leadership Studies	12	57.64	17.93	27.78	91.67
	401 Management and Marketing	28	44.54	14.59	11.11	75.00
	404 Management Information Systems	26	52.89	12.58	33.33	77.78
COET	235 Teacher Education	30	60.74	18.68	25.00	100.00
	233 Technology Studies	7	47.94	19.55	22.22	75.00
CHLS	300 Agriculture	14	53.97	15.28	30.56	83.33
	305 Allied Health	8	63.19	16.32	47.22	100.00
	302 Biological Sciences	13	56.62	22.12	25.00	94.44
	317 Communication Disorders	6	76.85	9.57	66.67	94.44
	331 Health and Human Performance	13	72.22	16.04	50.00	100.00
	340 Nursing	19	50.44	15.36	27.78	80.56