

---

# **Analysis of FHSU Results for the 2010 National Survey of Student Engagement by Major Department**

---

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

---

©2010 Fort Hays State University  
Assistant Provost for Quality Management  
For Internal Use Only – All Rights Reserved

---

## **1. Analytic Parameters**

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

<b>Dependent measures:</b>	2010 NSSE indexes and questions
<b>Independent variable:</b>	Major department
<b>Sample\Population:</b>	Students with class rank of senior
<b>Notations:</b>	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 40% noted in blue.

## **2. Results**

The sampling (n = 640) is drawn from the larger senior population (N = 1774) submitted for analysis. The sample included 395 female students and 245 male students. Of the seniors, 576 were US residents and 30 were international students. Additionally, 188 seniors began their studies at FHSU, while 419 began their college education elsewhere. Regarding enrollment, 222 are characterized as less than full-time and 418 are considered full-time. 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>
2	5	24	534	34	41

The senior sample is comprised of the following student ages:

<b>19 or younger</b>	<b>20 to 23</b>	<b>24 to 29</b>	<b>30 to 39</b>	<b>40 to 55</b>	<b>Over 55</b>
4	259	117	106	112	10

Active department recruitment of senior students to take NSSE is always helpful. The following table details the number of seniors in the sample, the number actually participating, and the response rate.

<b>Major Department</b>	<b>n</b>	<b>Sample</b>	<b>% Response</b>
101 Art	20	69	28.9%
104 Chemistry	10	14	71.4%
117 Communication Studies	13	30	43.3%
107 English	5	15	33.3%
120 General Studies	123	340	36.2%
105 Geosciences	6	17	35.3%

109 History	9	27	33.3%
121 Justice Studies	26	71	36.6%
122 Leadership Studies	15	45	33.3%
110 Mathematics and Computer Science	7	25	28.0%
108 Modern Languages	2	5	40.0%
111 Music	9	17	52.9%
112 Philosophy	1	4	25.0%
113 Physics	2	6	33.3%
114 Political Science	8	20	40.0%
115 Psychology	17	38	44.7%
116 Sociology and Social Work	37	84	44.0%
<b>COAS department average response</b>	<b>310</b>	<b>827</b>	<b>37.5%</b>
403 Economics and Finance	16	55	29.0%
407 Informatics	38	104	36.5%
401 Management and Marketing	67	201	33.3%
<b>COBL department average response</b>	<b>121</b>	<b>360</b>	<b>33.6%</b>
235 Teacher Education	81	218	37.2%
233 Technology Studies	13	37	35.1%
<b>COET department average response</b>	<b>94</b>	<b>255</b>	<b>36.9%</b>
300 Agriculture	23	50	46.0%
305 Allied Health	21	55	38.2%
302 Biological Sciences	22	52	42.3%
317 Communication Disorders	9	13	69.2%
331 Health and Human Performance	16	77	20.8%
340 Nursing	23	83	27.7%
<b>CHLS department average response</b>	<b>114</b>	<b>330</b>	<b>34.5%</b>
<b>University department average response</b>	<b>640</b>	<b>1774</b>	<b>36.1%</b>

**Analysis 2.1: Level of Academic Challenge.** This analysis explored the difference between senior students of different major departments on level of academic challenge. 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

## Analysis of FHSU Results for the 2010 National Survey of Student Engagement by Major Department

- 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
56.9	57.6	622	56.4	15.0	54.9	57.3

Major Department		n	Mean	Std Dev	Minimum	Maximum
COAS	101 Art	20	54.28	17.29	16.45	81.06
	104 Chemistry	10	52.44	15.33	30.84	80.63
	117 Communication Studies	12	58.70	9.26	37.99	69.05
	107 English	5	60.69	7.92	50.87	69.05
	120 General Studies	119	52.77	15.59	15.69	91.67
	105 Geosciences	5	58.27	9.99	49.57	69.59
	109 History	9	51.83	12.15	30.63	74.13
	121 Justice Studies	24	60.53	16.33	17.75	79.87
	122 Leadership Studies	15	58.89	16.51	23.69	83.23
	110 Mathematics and Computer Science	7	48.56	23.21	21.21	79.44
	108 Modern Languages	2	49.46	18.83	36.15	62.77
	111 Music	9	58.61	16.20	31.39	77.92
	112 Philosophy	1	59.63			
	113 Physics	2	54.27	5.59	50.32	58.23
	114 Political Science	8	58.20	10.79	42.75	75.65
	115 Psychology	17	57.80	12.29	39.94	76.73
	116 Sociology and Social Work	37	59.90	14.03	32.25	81.17
COB	403 Economics and Finance	15	51.86	15.23	34.20	81.17
	407 Informatics	36	55.46	13.83	31.60	92.10

	401 Management and Marketing	66	54.82	16.27	16.99	100.00
COET	235 Teacher Education	78	60.63	13.38	18.51	92.53
	233 Technology Studies	13	51.54	13.84	26.30	79.76
CHLS	300 Agriculture	23	46.29	12.73	21.54	66.99
	305 Allied Health	21	54.74	15.29	30.63	100.00
	302 Biological Sciences	22	60.97	12.83	35.61	86.36
	317 Communication Disorders	9	59.57	13.41	41.99	75.22
	331 Health and Human Performance	16	51.21	12.86	31.60	81.28
	340 Nursing	21	66.99	13.92	41.02	92.42

**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
- 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
51.9	51.4	638	43.9	19.3	43.3	46.3

Major Department		n	Mean	Std Dev	Minimum	Maximum
COAS	101 Art	20	60.71	18.27	28.57	90.48
	104 Chemistry	10	57.62	17.74	28.57	85.71
	117 Communication Studies	13	58.61	15.84	23.81	80.95
	107 English	5	48.57	10.32	42.86	66.67
	120 General Studies	122	31.93	16.31	.00	71.43
	105 Geosciences	6	53.77	22.24	28.57	85.71
	109 History	9	38.62	13.14	23.81	66.67
	121 Justice Studies	26	36.71	17.30	.00	76.19

	122 Leadership Studies	15	55.87	21.86	9.52	80.95
	110 Mathematics and Computer Science	7	42.86	18.24	23.81	71.43
	108 Modern Languages	2	57.14	6.73	52.38	61.90
	111 Music	9	58.20	29.14	23.81	90.48
	112 Philosophy	1	42.86			
	113 Physics	2	54.76	16.84	42.86	66.67
	114 Political Science	8	48.21	19.62	14.29	71.43
	115 Psychology	17	54.90	12.03	33.33	76.19
	116 Sociology and Social Work	37	39.04	15.80	9.52	80.95
COBL	403 Economics and Finance	16	38.24	13.51	19.05	71.43
	407 Informatics	38	41.99	15.32	.00	80.95
	401 Management and Marketing	67	45.26	17.62	5.56	95.24
COET	235 Teacher Education	81	52.53	19.77	14.29	100.00
	233 Technology Studies	13	47.37	18.15	23.81	85.71
CHLS	300 Agriculture	23	45.55	13.61	23.81	71.43
	305 Allied Health	21	44.41	22.43	4.76	100.00
	302 Biological Sciences	22	56.93	16.59	9.52	76.19
	317 Communication Disorders	9	46.91	12.32	28.57	66.67
	331 Health and Human Performance	16	44.00	13.81	9.52	66.67
	340 Nursing	23	47.65	23.27	.00	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
-----------	-----------	---	-----------	---------	---------------------	---------------------

# Analysis of FHSU Results for the 2010 National Survey of Student Engagement by Major Department

41.9	42.5	623	38.5	20.4	37.6	40.8
------	------	-----	------	------	------	------

Major Department		n	Mean	Std Dev	Minimum	Maximum
COAS	101 Art	20	48.89	23.54	22.22	94.44
	104 Chemistry	10	61.67	27.0	16.67	94.44
	117 Communication Studies	13	47.09	16.28	5.56	73.33
	107 English	5	54.44	19.80	38.89	88.89
	120 General Studies	119	30.47	15.45	5.56	77.78
	105 Geosciences	5	41.11	14.49	22.22	55.56
	109 History	9	37.16	23.29	11.11	73.33
	121 Justice Studies	23	35.99	20.21	11.11	80.00
	122 Leadership Studies	15	36.74	21.49	6.67	66.67
	110 Mathematics and Computer Science	7	43.65	28.22	11.11	83.33
	108 Modern Languages	2	36.11	19.64	22.22	50.00
	111 Music	9	53.70	20.60	27.78	83.33
	112 Philosophy	1	38.89			
	113 Physics	2	61.67	30.64	40.00	83.33
	114 Political Science	8	54.72	24.49	27.78	93.33
	115 Psychology	17	44.44	18.74	16.67	83.33
	116 Sociology and Social Work	37	33.33	16.20	5.56	88.89
COBL	403 Economics and Finance	15	34.44	15.46	16.67	66.67
	407 Informatics	36	32.10	20.10	5.56	100.00
	401 Management and Marketing	66	35.47	21.21	5.56	100.00
COET	235 Teacher Education	78	41.28	20.29	11.11	100.00
	233 Technology Studies	13	35.90	19.72	11.11	72.22
CHLS	300 Agriculture	23	41.98	18.81	16.67	77.78
	305 Allied Health	21	49.21	20.21	16.67	100.00
	302 Biological Sciences	22	56.82	18.30	16.67	88.89
	317 Communication Disorders	9	46.91	15.98	27.78	72.22
	331 Health and Human Performance	16	40.35	17.86	16.67	83.33
	340 Nursing	22	42.12	18.00	16.67	77.78

**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
38.3	40.5	617	32.9	16.6	32.2	34.8

Major Department		n	Mean	Std Dev	Minimum	Maximum
COAS	101 Art	20	38.27	15.64	11.11	67.86
	104 Chemistry	10	43.08	13.11	26.19	74.03
	117 Communication Studies	12	46.18	15.93	21.21	69.44
	107 English	5	48.73	15.65	34.52	67.86
	120 General Studies	118	27.59	16.13	.00	83.33
	105 Geosciences	5	25.24	10.91	11.11	37.30
	109 History	9	29.32	15.80	11.11	53.97
	121 Justice Studies	23	34.91	18.51	2.78	72.22
	122 Leadership Studies	15	45.21	19.13	16.67	88.10
	110 Mathematics and Computer Science	7	27.79	21.95	6.06	66.67
	108 Modern Languages	2	40.87	5.05	37.30	44.44
	111 Music	9	31.31	11.09	8.33	45.63
	112 Philosophy	1	29.76			
	113 Physics	2	28.37	4.77	25.00	31.75



	114 Political Science	8	47.72	22.63	13.89	90.87
	115 Psychology	17	36.19	15.63	13.89	65.08
	116 Sociology and Social Work	37	35.77	15.55	6.06	69.05
COBL	403 Economics and Finance	15	26.00	10.32	8.33	46.75
	407 Informatics	36	30.43	14.82	.00	58.33
	401 Management and Marketing	65	29.51	17.50	2.78	100.00
COET	235 Teacher Education	77	37.55	15.51	5.56	76.98
	233 Technology Studies	13	30.06	13.08	13.89	52.78
CHLS	300 Agriculture	22	26.84	12.77	5.56	52.38
	305 Allied Health	21	37.44	17.11	.00	59.52
	302 Biological Sciences	22	38.26	16.47	17.46	78.97
	317 Communication Disorders	9	30.69	14.06	13.89	62.30
	331 Health and Human Performance	16	40.53	14.92	16.27	65.08
	340 Nursing	21	34.80	16.81	11.11	61.11

**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
59.3	59.6	607	60.8	18.3	59.6	62.6

Major Department		n	Mean	Std Dev	Minimum	Maximum
COAS	101 Art	20	68.08	18.83	25.00	100.00
	104 Chemistry	10	62.78	18.98	41.67	100.00
	117 Communication Studies	12	65.05	21.24	13.89	94.44
	107 English	5	70.00	11.35	52.78	83.33
	120 General Studies	115	57.75	19.02	5.56	100.00

Analysis of FHSU Results for the 2010 National Survey of Student Engagement by Major Department

	105 Geosciences	5	74.44	11.35	61.11	86.11
	109 History	9	55.56	16.20	27.78	80.56
	121 Justice Studies	23	55.27	19.24	16.67	88.89
	122 Leadership Studies	14	63.69	24.28	19.44	100.00
	110 Mathematics and Computer Science	7	52.78	8.93	36.11	63.89
	108 Modern Languages	2	61.11	19.64	47.22	75.00
	111 Music	9	65.56	13.09	50.00	83.33
	112 Philosophy	1	58.33			
	113 Physics	2	70.83	13.75	61.11	80.56
	114 Political Science	8	60.07	24.89	25.00	91.67
	115 Psychology	17	63.17	14.67	41.67	100.00
	116 Sociology and Social Work	36	55.23	20.89	.00	91.67
COBL	403 Economics and Finance	15	60.37	16.18	30.56	94.44
	407 Informatics	36	59.65	16.99	16.67	91.67
	401 Management and Marketing	62	57.23	18.22	16.67	100.00
COET	235 Teacher Education	76	65.47	17.05	22.22	100.00
	233 Technology Studies	13	56.41	21.14	25.00	97.22
CHLS	300 Agriculture	22	58.08	14.52	30.56	88.89
	305 Allied Health	21	73.55	14.87	47.22	100.00
	302 Biological Sciences	22	65.59	18.59	33.33	97.22
	317 Communication Disorders	9	70.37	12.58	58.33	94.44
	331 Health and Human Performance	16	66.04	16.18	41.67	100.00
	340 Nursing	20	59.86	14.90	25.00	83.33