

# Graduate Student Experience Survey 2012

## College of Arts and Sciences: Natural and Physical Sciences

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This report includes, in this order:

**Response Rate.** A list of all programs represented in the report and their survey response rates.

**Program Satisfaction.** A table that shows the percentage of respondents in each academic program who rated 17 different aspects of their program (e.g., quality of the faculty; financial support for graduate students) as "excellent"; a table that shows the percentage of respondents in each academic program who rated these aspects as "excellent" or "very good;" a table that shows the percentage of respondents in each academic program who rated these aspects as "fair" or "poor."

**Advisor Traits.** A table that shows the percentage of respondents in each academic program who "strongly agreed" with each of 13 descriptive statements typically associated with academic advisors (e.g., encourages me in my scholarly pursuits; treats my ideas with respect); a table that shows the percentage of respondents in each program who "disagreed" or "strongly disagreed" with each of the 13 descriptive statements.

**Departmental Climate.** A table that shows the percentage of respondents in each academic program who "strongly agreed" that their program is like each of 10 descriptive statements (e.g., collegial; encouraging; supportive); a table that shows the percentage of respondents in each program who "strongly agreed" or "agreed" that their program is like the description; a table that shows the percentage of respondents in each program who "disagreed" or "strongly disagreed" that their program is like the description.

**Historical Comparisons by Program.** For each program represented in the school/college or divisional report, shown in alphabetical order, we present a series of eight tables-- three for program satisfaction, two for advisor traits, and three for departmental climate-- that compare the responses from the 2009 survey to those from the 2012 survey.

### *A Note about Departments and Programs with Small Respondent Numbers:*

In order to preserve confidentiality, programs in which there were 8 or fewer respondents have been grouped with another similar unit, when possible, or suppressed in the program reports that follow. In this report, Applied Physics was suppressed.

**GRADUATE STUDENT EXPERIENCE SURVEY RESPONSE RATE BY DEPARTMENT**

<b>CAS Nat Sci</b>	<b>Number of Respondents</b>	<b>Number of Students Surveyed</b>	<b>Response Rate</b>
Total for all Graduate Programs	1380	2677	51.6
CAS Nat Sci	320	562	56.9
Applied Physics	6	19	31.6
Biology	50	86	58.1
Chemistry	53	115	46.1
Computer & Information Science	26	49	53.1
Geological Sciences	30	39	76.9
Human Physiology	24	48	50.0
Mathematics	31	54	57.4
Physics	44	68	64.7
Psychology	56	84	66.7

**CAS Natural Sciences**
**Program Satisfaction**
*Percentage of respondents who rated the following features of their program as "Excellent."*

	Biology (N = 54)	Chemistry (N = 55)	Computer & Information Science (N = 27)	Geological Sciences (N = 32)	Human Physiology (N = 25)	Mathematics (N = 32)	Physics (N = 48)	Psychology (N = 59)
<b>Quality of the faculty</b>	51.0	32.1	0.0	43.3	70.8	35.5	34.1	55.4
<b>Overall Program quality</b>	42.0	26.4	3.8	36.7	58.3	32.3	29.5	30.4
<b>Financial support for graduate students</b>	24.5	34.0	23.1	40.0	50.0	74.2	63.6	35.7
<b>Program's performance in keeping pace with recent developments in my field</b>	52.0	26.4	3.8	36.7	52.2	41.9	29.5	46.4
<b>Quality of academic guidance and advising</b>	20.0	13.2	3.8	13.3	52.2	9.7	13.6	26.8
<b>Intellectual community in Program</b>	44.0	26.4	3.8	53.3	47.8	41.9	36.4	48.2
<b>Training/ assistance about career and professional development</b>	10.2	22.6	3.8	0.0	54.2	6.5	11.4	8.9
<b>Space, facilities and equipment</b>	24.0	24.5	15.4	16.7	29.2	41.9	38.6	10.7
<b>Process for involving students in Program decisions that affect graduate students</b>	18.4	17.0	3.8	50.0	25.0	16.1	20.5	21.4
<b>Research opportunities in my program</b>	46.0	41.5	26.9	63.3	54.2	29.0	43.2	51.8
<b>Fairness of the evaluation criteria used to assess graduate students</b>	16.0	11.5	4.0	16.7	39.1	22.6	25.0	28.6
<b>Program's efforts to promote a diverse, inclusive community</b>	12.0	13.2	11.5	10.0	25.0	19.4	27.3	19.6
<b>Training/assistance about grants and other external funding</b>	6.0	9.4	3.8	13.8	16.7	6.5	2.3	9.1
<b>Adequacy of preparation for teaching</b>	6.0	11.3	4.0	3.3	37.5	48.4	11.4	3.6
<b>Clarity of the evaluation criteria used to assess graduate students</b>	10.0	9.4	8.0	6.7	29.2	12.9	6.8	12.5
<b>Support for interdisciplinary inquiry</b>	30.0	30.2	11.5	36.7	12.5	0.0	20.5	41.1
<b>Training about professional ethics/academic integrity</b>	18.0	17.0	11.5	13.3	45.8	12.9	4.5	17.9
33.3% of students or more rated the program as "Excellent".*	5	2	0	8	11	6	5	6
50% of students or more rated the program as "Excellent".**	2	0	0	3	7	1	1	2

\*light green shading indicates that 33.3% or more of respondents rated their program as "Excellent."

\*\*dark green shading indicates that 50% or more of respondents rated their program as "Excellent."

CAS Natural Sciences

Program Satisfaction

*Percentage of respondents who rated the following features of their program as "Excellent" or "Very Good."*

	Biology (N = 54)	Chemistry (N = 55)	Computer & Information Science (N = 27)	Geological Sciences (N = 32)	Human Physiology (N = 25)	Mathematics (N = 32)	Physics (N = 48)	Psychology (N = 59)
Quality of the faculty	89.8	75.5	23.1	90.0	87.5	90.3	86.4	87.5
Overall Program quality	82.0	73.6	30.8	86.7	83.3	90.3	79.5	78.6
Financial support for graduate students	73.5	60.4	61.5	73.3	66.7	90.3	84.1	66.1
Program's performance in keeping pace with recent developments in my field	82.0	83.0	26.9	86.7	78.3	96.8	72.7	76.8
Quality of academic guidance and advising	52.0	45.3	34.6	53.3	78.3	35.5	43.2	66.1
Intellectual community in Program	74.0	71.7	53.8	83.3	82.6	93.5	77.3	73.2
Training/ assistance about career and professional development	30.6	47.2	23.1	23.3	91.7	22.6	29.5	32.1
Space, facilities and equipment	58.0	64.2	50.0	80.0	45.8	74.2	81.8	35.7
Process for involving students in Program decisions that affect graduate students	36.7	34.0	34.6	83.3	66.7	61.3	63.6	55.4
Research opportunities in my program	80.0	69.8	57.7	90.0	79.2	80.6	75.0	87.5
Fairness of the evaluation criteria used to assess graduate students	50.0	38.5	32.0	50.0	73.9	54.8	56.8	64.3
Program's efforts to promote a diverse, inclusive community	36.0	49.1	50.0	50.0	54.2	51.6	50.0	48.2
Training/assistance about grants and other external funding	20.0	24.5	26.9	24.1	58.3	19.4	27.3	32.7
Adequacy of preparation for teaching	26.0	35.8	32.0	23.3	70.8	83.9	38.6	26.8
Clarity of the evaluation criteria used to assess graduate students	42.0	32.1	28.0	40.0	62.5	38.7	43.2	39.3
Support for interdisciplinary inquiry	64.0	56.6	34.6	60.0	41.7	6.5	61.4	64.3
Training about professional ethics/academic integrity	40.0	47.2	42.3	33.3	83.3	38.7	20.5	51.8
50% of students or more rated the program as "Excellent" or "Very Good".*	10	8	5	12	15	11	11	11
75% of students or more rated the program as "Excellent" or "Very Good".**	4	2	0	7	8	7	6	4

\*light green shading indicates that 50% or more of respondents rated their program as "Excellent" or "Very Good."

\*\*dark green shading indicates that 75% or more of respondents rated their program as "Excellent" or "Very Good."

CAS Natural Sciences

Program Satisfaction

*Percentage of respondents who rated the following features of their program as "Fair" or "Poor."*

	Biology (N = 54)	Chemistry (N = 55)	Computer & Information Science (N = 27)	Geological Sciences (N = 32)	Human Physiology (N = 25)	Mathematics (N = 32)	Physics (N = 48)	Psychology (N = 59)
Quality of the faculty	0.0	5.7	26.9	0.0	4.2	3.2	2.3	3.6
Overall Program quality	0.0	5.7	19.2	0.0	4.2	6.5	2.3	8.9
Financial support for graduate students	6.1	13.2	7.7	3.3	4.2	6.5	2.3	14.3
Program's performance in keeping pace with recent developments in my field	2.0	0.0	34.6	0.0	4.3	0.0	4.5	5.4
Quality of academic guidance and advising	12.0	13.2	34.6	13.3	13.0	12.9	27.3	12.5
Intellectual community in Program	4.0	5.7	15.4	3.3	4.3	6.5	11.4	5.4
Training/ assistance about career and professional development	34.7	18.9	38.5	50.0	4.2	22.6	47.7	28.6
Space, facilities and equipment	22.0	9.4	19.2	10.0	20.8	6.5	2.3	26.8
Process for involving students in Program decisions that affect graduate students	28.6	26.4	23.1	3.3	8.3	16.1	20.5	19.6
Research opportunities in my program	0.0	5.7	11.5	3.3	8.3	3.2	9.1	3.6
Fairness of the evaluation criteria used to assess graduate students	14.0	19.2	28.0	20.0	13.0	9.7	15.9	14.3
Program's efforts to promote a diverse, inclusive community	24.0	20.8	11.5	10.0	8.3	19.4	18.2	23.2
Training/assistance about grants and other external funding	34.0	39.6	30.8	51.7	12.5	35.5	40.9	34.5
Adequacy of preparation for teaching	36.0	24.5	36.0	33.3	12.5	12.9	27.3	50.0
Clarity of the evaluation criteria used to assess graduate students	38.0	24.5	36.0	26.7	12.5	29.0	11.4	17.9
Support for interdisciplinary inquiry	16.0	15.1	19.2	10.0	12.5	58.1	20.5	7.1
Training about professional ethics/academic integrity	22.0	20.8	26.9	33.3	4.2	29.0	50.0	19.6
20% of students or more rated the program as "Fair" or "Poor".*	8	6	10	6	1	5	7	5

\*orange shading indicates that 20% or more of respondents rated their program as "Fair" or "Poor."

CAS Natural Sciences

Advisor

Percentage of respondents who "Strongly Agreed" with each of the following statements about their advisor.

	Biology (N = 54)	Chemistry (N = 55)	Computer & Information Science (N = 27)	Geological Sciences (N = 32)	Human Physiology (N = 25)	Mathematics (N = 32)	Physics (N = 48)	Psychology (N = 59)
Encourages me in my scholarly pursuits	62.5	45.7	50.0	69.0	79.2	43.5	60.0	71.4
Treats my ideas with respect	60.0	35.3	40.9	79.3	82.6	39.1	55.0	75.0
Provides constructive feedback on my work	50.0	42.9	36.4	69.0	70.8	43.5	47.5	62.5
Provides timely feedback on my work	45.0	34.3	36.4	58.6	73.9	39.1	42.5	48.2
Is available when I need help or advice	50.0	37.1	31.8	41.4	83.3	47.8	47.5	57.1
Would support me in any career path I choose (academic or a career outside the academy)	43.6	48.6	27.3	64.3	70.8	47.8	50.0	69.6
Treats students in the department equitably regardless of their backgrounds	66.7	54.3	40.9	69.0	75.0	52.2	56.4	83.9
Has emphasized the importance of professional ethics in our field	41.0	48.6	27.3	31.0	66.7	26.1	35.0	55.4
Helps me secure external or internal funding for my graduate studies, research or creative work	50.0	54.3	36.4	48.3	87.5	13.0	52.5	46.4
Helps me develop professional relationships with others in the field	35.0	40.0	36.4	41.4	70.8	26.1	35.0	48.2
Advises me about how to get my work published, performed or shown	45.0	51.4	40.9	53.6	79.2	52.2	35.0	50.9
Encourages the expression of intellectual differences or disagreements	37.5	42.9	40.9	55.2	70.8	30.4	42.1	53.6
Makes me feel comfortable talking about issues I am facing in graduate school	32.5	37.1	36.4	31.0	66.7	30.4	40.0	58.9
50% of students or more "Strongly Agreed" with the above dimensions about their advisor.*	6	3.0	1.0	8.0	13.0	2.0	5.0	10.0
75% of students or more "Strongly Agreed" with the above dimensions about their advisor.**	0	0.0	0.0	1.0	6.0	0.0	0.0	2.0

\*light green shading indicates that 50% or more of respondents "Strongly Agreed" with the above dimensions about their advisor.

\*\*dark green shading indicates that 75% or more of respondents "Strongly Agreed" with the above dimensions about their advisor.

CAS Natural Sciences

Advisor	Percentage of respondents who "Disagreed" or "Strongly Disagreed" with each of the following statements about their advisor.							
	Biology (N = 54)	Chemistry (N = 55)	Computer & Information Science (N = 27)	Geological Sciences (N = 32)	Human Physiology (N = 25)	Mathematics (N = 32)	Physics (N = 48)	Psychology (N = 59)
Encourages me in my scholarly pursuits	0.0	0.0	0.0	0.0	4.2	0.0	7.5	5.4
Treats my ideas with respect	5.0	8.8	0.0	0.0	4.3	8.7	2.5	1.8
Provides constructive feedback on my work	5.0	5.7	9.1	6.9	4.2	8.7	5.0	5.4
Provides timely feedback on my work	7.5	5.7	22.7	10.3	4.3	4.3	12.5	16.1
Is available when I need help or advice	2.5	8.6	9.1	6.9	4.2	4.3	0.0	10.7
Would support me in any career path I choose (academic or a career outside the academy)	15.4	8.6	4.5	3.6	0.0	0.0	7.5	1.8
Treats students in the department equitably regardless of their backgrounds	5.1	5.7	13.6	6.9	0.0	4.3	5.1	0.0
Has emphasized the importance of professional ethics in our field	12.8	5.7	0.0	10.3	0.0	8.7	10.0	5.4
Helps me secure external or internal funding for my graduate studies, research or creative work	2.5	2.9	13.6	13.8	4.2	17.4	0.0	17.9
Helps me develop professional relationships with others in the field	15.0	8.6	18.2	17.2	0.0	8.7	10.0	17.9
Advises me about how to get my work published, performed or shown	5.0	2.9	4.5	17.9	0.0	4.3	5.0	10.9
Encourages the expression of intellectual differences or disagreements	15.0	11.4	4.5	6.9	4.2	8.7	10.5	8.9
Makes me feel comfortable talking about issues I am facing in graduate school	20.0	20.0	13.6	10.3	4.2	13.0	15.0	10.7
20% of students or more "Disagreed" or "Strongly Disagreed" with the statements above about their advisor.*	1	1	1	0	0	0	0	0
33.3% of students or more "Disagreed" or "Strongly Disagreed" with the statements above about their advisor.**	0	0	0	0	0	0	0	0

\*red shading indicates that 20% or more of respondents "Disagreed" or "Strongly Disagreed" with the statements above about their advisor.

# CAS Natural Sciences

## Climate

*Percentage of respondents who "Strongly Agreed" that their program is like the description.*

	Biology (N = 54)	Chemistry (N = 55)	Computer & Information Science (N = 27)	Geological Sciences (N = 32)	Human Physiology (N = 25)	Mathematics (N = 32)	Physics (N = 48)	Psychology (N = 59)
<b>Collegial</b>	45.8	41.2	16.7	55.2	33.3	40.0	55.8	64.8
<b>Encouraging</b>	43.8	31.4	20.8	55.2	54.2	33.3	36.4	58.2
<b>Supportive</b>	50.0	33.3	25.0	48.3	65.2	30.0	43.2	57.1
<b>Intellectually open to multiple theoretical, methodological or creative approaches</b>	43.8	31.4	25.0	58.6	58.3	34.5	31.8	58.9
<b>Open to interdisciplinary inquiry</b>	47.9	37.3	16.7	58.6	33.3	10.0	27.3	51.8
<b>Inclusive of students of color</b>	34.0	41.2	37.5	20.7	37.5	27.6	45.5	42.9
<b>Inclusive by gender</b>	64.6	51.0	45.8	55.2	66.7	33.3	52.3	58.9
<b>Inclusive of international students</b>	45.8	38.0	62.5	27.6	66.7	50.0	52.3	41.1
<b>Inclusive of students with disabilities</b>	31.9	31.4	37.5	14.8	25.0	30.0	32.6	29.1
<b>Inclusive of first generation students</b>	48.9	43.1	37.5	25.9	45.8	34.5	36.4	32.1
<b>Inclusive of students of all sexual orientations</b>	61.7	56.9	41.7	42.9	45.8	40.0	47.7	66.1
33.3% of students or more "Strongly Agreed" that the description fit their program*	10	8	6	7	10	7	8	9
50% of students or more "Strongly Agreed" that the description fit their program**	3	2	1	5	5	1	3	7

\*light green shading indicates that 33.3% or more of respondents "Strongly Agreed" that their program was very much like the description.

\*\*dark green shading indicates that 50% or more of respondents "Strongly Agreed" that their program was very much like the description.



# CAS Natural Sciences

## Climate

*Percentage of respondents who "Strongly Agreed" or "Agreed" that their program is like the description.*

	Biology (N = 54)	Chemistry (N = 55)	Computer & Information Science (N = 27)	Geological Sciences (N = 32)	Human Physiology (N = 25)	Mathematics (N = 32)	Physics (N = 48)	Psychology (N = 59)
<b>Collegial</b>	89.6	82.4	62.5	89.7	83.3	90.0	76.7	92.6
<b>Encouraging</b>	85.4	84.3	66.7	82.8	91.7	73.3	65.9	87.3
<b>Supportive</b>	87.5	84.3	70.8	82.8	91.3	76.7	75.0	80.4
<b>Intellectually open to multiple theoretical, methodological or creative approaches</b>	83.3	76.5	62.5	86.2	79.2	79.3	75.0	83.9
<b>Open to interdisciplinary inquiry</b>	75.0	78.4	54.2	82.8	70.8	20.0	72.7	89.3
<b>Inclusive of students of color</b>	55.3	72.5	75.0	55.2	62.5	58.6	72.7	71.4
<b>Inclusive by gender</b>	83.3	88.2	62.5	89.7	79.2	66.7	70.5	91.1
<b>Inclusive of international students</b>	79.2	68.0	83.3	62.1	75.0	86.7	90.9	67.9
<b>Inclusive of students with disabilities</b>	53.2	54.9	62.5	44.4	50.0	53.3	58.1	50.9
<b>Inclusive of first generation students</b>	74.5	72.5	66.7	59.3	62.5	69.0	63.6	62.5
<b>Inclusive of students of all sexual orientations</b>	83.0	90.2	79.2	85.7	75.0	83.3	86.4	87.5
50% of students or more "Strongly Agreed" or "Agreed" that the description fit their program.*	11	11	11	10	11	10	11	11
75% of students or more "Strong Agreed" or "Agreed" that the description fit their program.**	8	7	3	7	7	5	5	7

\*light green shading indicates that 50% or more of respondents "Strongly Agreed" or "Agreed" that the description fit their program.

\*\*dark green shading indicates that 75% or more of respondents "Strongly Agreed" or "Agreed" that the description fit their program.

CAS Natural Sciences

Climate

*Percentage of respondents who "Disagreed" or "Strongly Disagreed" that their program is like the description.*

	Biology (N = 54)	Chemistry (N = 55)	Computer & Information Science (N = 27)	Geological Sciences (N = 32)	Human Physiology (N = 25)	Mathematics (N = 32)	Physics (N = 48)	Psychology (N = 59)
<b>Collegial</b>	2.1	3.9	8.3	0.0	4.2	3.3	2.3	3.7
<b>Encouraging</b>	2.1	7.8	12.5	3.4	4.2	0.0	15.9	3.6
<b>Supportive</b>	2.1	5.9	8.3	0.0	4.3	10.0	9.1	7.1
<b>Intellectually open to multiple theoretical, methodological or creative approaches</b>	8.3	7.8	25.0	0.0	8.3	3.4	6.8	5.4
<b>Open to interdisciplinary inquiry</b>	4.2	5.9	8.3	3.4	8.3	40.0	0.0	1.8
<b>Inclusive of students of color</b>	23.4	5.9	0.0	6.9	4.2	13.8	2.3	10.7
<b>Inclusive by gender</b>	2.1	3.9	20.8	3.4	4.2	13.3	15.9	1.8
<b>Inclusive of international students</b>	6.3	4.0	0.0	0.0	4.2	6.7	2.3	3.6
<b>Inclusive of students with disabilities</b>	17.0	7.8	8.3	11.1	8.3	10.0	9.3	12.7
<b>Inclusive of first generation students</b>	6.4	3.9	0.0	7.4	4.2	6.9	6.8	8.9
<b>Inclusive of students of all sexual orientations</b>	4.3	0.0	0.0	3.6	4.2	0.0	2.3	5.4
20% of students or more "Disagreed" or "Strongly Disagreed" that the description fit their program.*	1	0	2	0	0	1	0	0
33.3% of students or more "Disagreed" or "Strongly Disagreed" that the description fit their program.*	0	0	0	0	0	1	0	0

\*red shading indicates that 20% or more of respondents "Disagreed" or "Strongly Disagreed" that the description fit their program.

## Biology

*Program Satisfaction: percentage of respondents who rated the following features of their program as...*

	<b>Excellent</b>			<b>Excellent or Very Good</b>			<b>Fair or Poor</b>	
	2009 (N = 57)	2012 (N = 54)		2009 (N = 57)	2012 (N = 54)		2009 (N = 57)	2012 (N = 54)
Quality of the faculty	38.6	51.0		87.3	89.8		0.0	0.0
Overall Program quality	16.7	42.0		84.3	82.0		3.4	0.0
Financial support for graduate students	25.9	24.5		61.2	73.5		8.8	6.1
Program's performance in keeping pace with recent developments in my field	39.2	52.0		79.9	82.0		4.1	2.0
Quality of academic guidance and advising	16.9	20.0		55.9	52.0		20.3	12.0
Intellectual community in Program	48.3	44.0		89.7	74.0		3.5	4.0
Training/ assistance about career and professional development	N/A	10.2		N/A	30.6		N/A	34.7
Space, facilities and equipment	18.4	24.0		61.5	58.0		9.3	22.0
Process for involving students in Program decisions that affect graduate students*	9.1	18.4		31.8	36.7		34.1	28.6
Research opportunities in my program	N/A	46.0		N/A	80.0		N/A	0.0
Fairness of the evaluation criteria used to assess graduate students	16.3	16.0		54.5	50.0		23.1	14.0
Program's efforts to promote a diverse, inclusive community*	13.0	12.0		44.3	36.0		12.8	24.0
Training/assistance about grants and other external funding	N/A	6.0		N/A	20.0		N/A	34.0
Adequacy of preparation for teaching	12.6	6.0		39.4	26.0		22.7	36.0
Clarity of the evaluation criteria used to assess graduate students	12.5	10.0		39.0	42.0		24.5	38.0
Support for interdisciplinary inquiry	27.7	30.0		58.2	64.0		15.0	16.0
Training about professional ethics/academic integrity*	12.9	18.0		44.7	40.0		15.7	22.0
* 2012 survey included minor edits to question text	5 features rated as 'Excellent' by at least 33.3% of students in 2012, compared to 3 in 2009.			10 features rated as 'Excellent' or 'Very Good' by at least 50% of students in 2012, compared to 9 in 2009.			8 features rated as 'Fair' or 'Poor' by at least 20% of students in 2012, compared to 5 in 2009.	
	2 features rated as 'Excellent' by at least 50% of students in 2012, compared to 0 in 2009.			4 features rated as 'Excellent' or 'Very Good' by at least 75% of students in 2012, compared to 4 in 2009.				

Biology

Advisor: percentage of respondents who Agreed/Disagreed with each of the following statements about their advisor.

	Strongly Agreed		Disagreed or Strongly Disagreed	
	2009 (N = 57)	2012 (N = 54)	2009 (N = 57)	2012 (N = 54)
Encourages me in my scholarly pursuits	54.4	62.5	6.7	0.0
Treats my ideas with respect	44.8	60.0	8.2	5.0
Provides constructive feedback on my work*	45.7	50.0	5.9	5.0
Provides timely feedback on my work	39.0	45.0	5.9	7.5
Is available when I need help or advice	44.6	50.0	3.6	2.5
Would support me in any career path I choose (academic or a career outside the academy)	N/A	43.6	N/A	15.4
Treats students in the department equitably regardless of their backgrounds*	37.2	66.7	3.7	5.1
Has emphasized the importance of professional ethics in our field*	28.8	41.0	10.4	12.8
Helps me secure external or internal funding for my graduate studies, research or creative work*	56.8	50.0	7.3	2.5
Helps me develop professional relationships with others in the field	40.1	35.0	18.2	15.0
Advises me about how to get my work published, performed or shown	42.7	45.0	16.0	5.0
Encourages the expression of intellectual differences or disagreements*	27.6	37.5	12.5	15.0
Makes me feel comfortable talking about issues I am facing in graduate school	38.0	32.5	22.7	20.0
* 2012 survey included minor edits to question text	At least 50% of respondents 'Strongly Agreed' with 6 statements about their advisors in 2012, compared to 2 statements in 2009.		At least 20% of respondents 'Disagreed' or 'Strongly Disagreed' with 1 statements about their advisors in 2012, compared to 1 statements in 2009.	
	At least 75% of respondents 'Strongly Agreed' with 0 statements about their advisors in 2012, compared to 0 statements in 2009.			

## Biology

*Climate: percentage of respondents who Agreed/Disagreed that their program is like the description*

	<b>Strongly Agreed</b>		<b>Strongly Agreed or Agreed</b>		<b>Disagreed or Strongly Disagreed</b>	
	2009 (N = 57)	2012 (N = 54)	2009 (N = 57)	2012 (N = 54)	2009 (N = 57)	2012 (N = 54)
Collegial	N/A	45.8	N/A	89.6	N/A	2.1
Encouraging	48.1	43.8	82.9	85.4	0.0	2.1
Supportive	40.3	50.0	90.6	87.5	0.0	2.1
Intellectually open to multiple theoretical, methodological or creative approaches*	43.5	43.8	82.1	83.3	1.8	8.3
Open to interdisciplinary inquiry	42.1	47.9	84.0	75.0	1.8	4.2
Inclusive of students of color*	31.6	34.0	63.7	55.3	8.0	23.4
Inclusive by gender*	54.8	64.6	92.3	83.3	0.0	2.1
Inclusive of international students	N/A	45.8	N/A	79.2	N/A	6.3
Inclusive of students with disabilities*	24.6	31.9	64.1	53.2	8.4	17.0
Inclusive of first generation students	N/A	48.9	N/A	74.5	N/A	6.4
Inclusive of students of all sexual orientations	48.9	61.7	88.4	83.0	0.0	4.3
* 2012 survey included minor edits to question text	At least 33.3% of respondents 'Strongly Agreed' with 10 statements about the climate of their program in 2012, compared to 6 statements in 2009.		At least 50% of respondents 'Strongly Agreed' with 11 statements about the climate of their program in 2012, compared to 8 statements in 2009.		At least 20% of respondents 'Disagreed' or 'Strongly Disagreed' with 1 statements about the climate of their program in 2012, compared to 0 statements in 2009.	
	At least 50% of respondents 'Strongly Agreed' with 3 statements about the climate of their program in 2012, compared to 1 statements in 2009.		At least 75% of respondents 'Strongly Agreed' with 8 statements about the climate of their program in 2012, compared to 6 statements in 2009.			

## Chemistry

**Program Satisfaction: percentage of respondents who rated the following features of their program as...**

	<b>Excellent</b>		<b>Excellent or Very Good</b>		<b>Fair or Poor</b>	
	2009 (N = 60)	2012 (N = 55)	2009 (N = 60)	2012 (N = 55)	2009 (N = 60)	2012 (N = 55)
Quality of the faculty	27.1	32.1	85.4	75.5	1.9	5.7
Overall Program quality	21.1	26.4	76.4	73.6	1.9	5.7
Financial support for graduate students	37.4	34.0	66.5	60.4	12.7	13.2
Program's performance in keeping pace with recent developments in my field	34.2	26.4	85.4	83.0	5.8	0.0
Quality of academic guidance and advising	16.1	13.2	52.4	45.3	14.2	13.2
Intellectual community in Program	48.4	26.4	87.0	71.7	3.5	5.7
Training/ assistance about career and professional development	N/A	22.6	N/A	47.2	N/A	18.9
Space, facilities and equipment	26.9	24.5	59.2	64.2	9.0	9.4
Process for involving students in Program decisions that affect graduate students*	10.8	17.0	33.9	34.0	28.3	26.4
Research opportunities in my program	N/A	41.5	N/A	69.8	N/A	5.7
Fairness of the evaluation criteria used to assess graduate students	12.0	11.5	55.1	38.5	10.6	19.2
Program's efforts to promote a diverse, inclusive community*	18.1	13.2	46.1	49.1	16.5	20.8
Training/assistance about grants and other external funding	N/A	9.4	N/A	24.5	N/A	39.6
Adequacy of preparation for teaching	13.2	11.3	35.5	35.8	14.9	24.5
Clarity of the evaluation criteria used to assess graduate students	9.0	9.4	43.7	32.1	14.9	24.5
Support for interdisciplinary inquiry	30.3	30.2	67.3	56.6	12.9	15.1
Training about professional ethics/academic integrity*	16.1	17.0	38.6	47.2	20.7	20.8
* 2012 survey included minor edits to question text	2 features rated as 'Excellent' by at least 33.3% of students in 2012, compared to 3 in 2009.		8 features rated as 'Excellent' or 'Very Good' by at least 50% of students in 2012, compared to 9 in 2009.		6 features rated as 'Fair' or 'Poor' by at least 20% of students in 2012, compared to 2 in 2009.	
	0 features rated as 'Excellent' by at least 50% of students in 2012, compared to 0 in 2009.		2 features rated as 'Excellent' or 'Very Good' by at least 75% of students in 2012, compared to 4 in 2009.			

Chemistry

Advisor: percentage of respondents who Agreed/Disagreed with each of the following statements about their advisor.

	Strongly Agreed		Disagreed or Strongly Disagreed	
	2009 (N = 60)	2012 (N = 55)	2009 (N = 60)	2012 (N = 55)
Encourages me in my scholarly pursuits	56.2	45.7	2.2	0.0
Treats my ideas with respect	41.9	35.3	4.4	8.8
Provides constructive feedback on my work*	46.9	42.9	5.7	5.7
Provides timely feedback on my work	39.1	34.3	15.7	5.7
Is available when I need help or advice	35.1	37.1	13.5	8.6
Would support me in any career path I choose (academic or a career outside the academy)	N/A	48.6	N/A	8.6
Treats students in the department equitably regardless of their backgrounds*	40.1	54.3	10.4	5.7
Has emphasized the importance of professional ethics in our field*	46.2	48.6	5.7	5.7
Helps me secure external or internal funding for my graduate studies, research or creative work*	54.0	54.3	8.3	2.9
Helps me develop professional relationships with others in the field	38.7	40.0	8.3	8.6
Advises me about how to get my work published, performed or shown	43.8	51.4	6.2	2.9
Encourages the expression of intellectual differences or disagreements*	29.5	42.9	4.3	11.4
Makes me feel comfortable talking about issues I am facing in graduate school	35.9	37.1	8.2	20.0
* 2012 survey included minor edits to question text	At least 50% of respondents 'Strongly Agreed' with 3 statements about their advisors in 2012, compared to 2 statements in 2009.		At least 20% of respondents 'Disagreed' or 'Strongly Disagreed' with 1 statements about their advisors in 2012, compared to 0 statements in 2009.	
	At least 75% of respondents 'Strongly Agreed' with 0 statements about their advisors in 2012, compared to 0 statements in 2009.			

## Chemistry

*Climate: percentage of respondents who Agreed/Disagreed that their program is like the description*

	<b>Strongly Agreed</b>			<b>Strongly Agreed or Agreed</b>			<b>Disagreed or Strongly Disagreed</b>	
	2009 (N = 60)	2012 (N = 55)		2009 (N = 60)	2012 (N = 55)		2009 (N = 60)	2012 (N = 55)
Collegial	N/A	41.2		N/A	82.4		N/A	3.9
Encouraging	43.6	31.4		79.5	84.3		2.0	7.8
Supportive	46.6	33.3		86.3	84.3		0.0	5.9
Intellectually open to multiple theoretical, methodological or creative approaches*	36.3	31.4		83.5	76.5		3.5	7.8
Open to interdisciplinary inquiry	44.1	37.3		90.7	78.4		0.0	5.9
Inclusive of students of color*	31.9	41.2		64.9	72.5		15.2	5.9
Inclusive by gender*	49.1	51.0		81.9	88.2		3.5	3.9
Inclusive of international students	N/A	38.0		N/A	68.0		N/A	4.0
Inclusive of students with disabilities*	22.2	31.4		66.4	54.9		1.7	7.8
Inclusive of first generation students	N/A	43.1		N/A	72.5		N/A	3.9
Inclusive of students of all sexual orientations	46.8	56.9		86.7	90.2		0.0	0.0
* 2012 survey included minor edits to question text	At least 33.3% of respondents 'Strongly Agreed' with 8 statements about the climate of their program in 2012, compared to 6 statements in 2009.			At least 50% of respondents 'Strongly Agreed' with 11 statements about the climate of their program in 2012, compared to 8 statements in 2009.			At least 20% of respondents 'Disagreed' or 'Strongly Disagreed' with 0 statements about the climate of their program in 2012, compared to 0 statements in 2009.	
	At least 50% of respondents 'Strongly Agreed' with 2 statements about the climate of their program in 2012, compared to 0 statements in 2009.			At least 75% of respondents 'Strongly Agreed' with 7 statements about the climate of their program in 2012, compared to 6 statements in 2009.				



## Computer & Information Science

*Program Satisfaction: percentage of respondents who rated the following features of their program as...*

	<b>Excellent</b>		<b>Excellent or Very Good</b>		<b>Fair or Poor</b>	
	2009 (N = 22)	2012 (N = 27)	2009 (N = 22)	2012 (N = 27)	2009 (N = 22)	2012 (N = 27)
Quality of the faculty	20.2	0.0	69.7	23.1	14.7	26.9
Overall Program quality	4.5	3.8	53.4	30.8	21.0	19.2
Financial support for graduate students	9.4	23.1	38.4	61.5	28.1	7.7
Program's performance in keeping pace with recent developments in my field	9.4	3.8	48.3	26.9	19.0	34.6
Quality of academic guidance and advising	9.1	3.8	61.1	34.6	19.1	34.6
Intellectual community in Program	0.0	3.8	61.9	53.8	14.1	15.4
Training/ assistance about career and professional development	N/A	3.8	N/A	23.1	N/A	38.5
Space, facilities and equipment	18.5	15.4	56.9	50.0	14.1	19.2
Process for involving students in Program decisions that affect graduate students*	9.1	3.8	42.9	34.6	18.2	23.1
Research opportunities in my program	N/A	26.9	N/A	57.7	N/A	11.5
Fairness of the evaluation criteria used to assess graduate students	0.0	4.0	52.9	32.0	14.1	28.0
Program's efforts to promote a diverse, inclusive community*	5.5	11.5	42.4	50.0	15.5	11.5
Training/assistance about grants and other external funding	N/A	3.8	N/A	26.9	N/A	30.8
Adequacy of preparation for teaching	4.5	4.0	48.4	32.0	9.1	36.0
Clarity of the evaluation criteria used to assess graduate students	0.0	8.0	33.5	28.0	19.0	36.0
Support for interdisciplinary inquiry	0.0	11.5	37.6	34.6	24.0	19.2
Training about professional ethics/academic integrity*	9.1	11.5	57.5	42.3	24.0	26.9
* 2012 survey included minor edits to question text	0 features rated as 'Excellent' by at least 33.3% of students in 2012, compared to 0 in 2009.		5 features rated as 'Excellent' or 'Very Good' by at least 50% of students in 2012, compared to 7 in 2009.		10 features rated as 'Fair' or 'Poor' by at least 20% of students in 2012, compared to 4 in 2009.	
	0 features rated as 'Excellent' by at least 50% of students in 2012, compared to 0 in 2009.		0 features rated as 'Excellent' or 'Very Good' by at least 75% of students in 2012, compared to 0 in 2009.			

Computer & Information Science

Advisor: percentage of respondents who Agreed/Disagreed with each of the following statements about their advisor.

	Strongly Agreed		Disagreed or Strongly Disagreed	
	2009 (N = 22)	2012 (N = 27)	2009 (N = 22)	2012 (N = 27)
Encourages me in my scholarly pursuits	42.8	50.0	15.4	0.0
Treats my ideas with respect	37.3	40.9	5.5	0.0
Provides constructive feedback on my work*	42.8	36.4	20.0	9.1
Provides timely feedback on my work	37.3	36.4	30.8	22.7
Is available when I need help or advice	41.8	31.8	20.9	9.1
Would support me in any career path I choose (academic or a career outside the academy)	N/A	27.3	N/A	4.5
Treats students in the department equitably regardless of their backgrounds*	52.7	40.9	0.0	13.6
Has emphasized the importance of professional ethics in our field*	52.7	27.3	5.5	0.0
Helps me secure external or internal funding for my graduate studies, research or creative work*	30.9	36.4	20.9	13.6
Helps me develop professional relationships with others in the field	41.8	36.4	20.9	18.2
Advises me about how to get my work published, performed or shown	42.8	40.9	15.5	4.5
Encourages the expression of intellectual differences or disagreements*	37.3	40.9	10.9	4.5
Makes me feel comfortable talking about issues I am facing in graduate school	47.3	36.4	20.9	13.6
* 2012 survey included minor edits to question text	At least 50% of respondents 'Strongly Agreed' with 1 statements about their advisors in 2012, compared to 2 statements in 2009.		At least 20% of respondents 'Disagreed' or 'Strongly Disagreed' with 1 statements about their advisors in 2012, compared to 6 statements in 2009.	
	At least 75% of respondents 'Strongly Agreed' with 0 statements about their advisors in 2012, compared to 0 statements in 2009.			

## Computer & Information Science

*Climate: percentage of respondents who Agreed/Disagreed that their program is like the description*

	<b>Strongly Agreed</b>			<b>Strongly Agreed or Agreed</b>			<b>Disagreed or Strongly Disagreed</b>	
	2009 (N = 22)	2012 (N = 27)		2009 (N = 22)	2012 (N = 27)		2009 (N = 22)	2012 (N = 27)
Collegial	N/A	16.7		N/A	62.5		N/A	8.3
Encouraging	42.9	20.8		61.9	66.7		9.1	12.5
Supportive	35.2	25.0		70.0	70.8		4.3	8.3
Intellectually open to multiple theoretical, methodological or creative approaches*	23.5	25.0		85.9	62.5		0.0	25.0
Open to interdisciplinary inquiry	23.7	16.7		69.7	54.2		0.0	8.3
Inclusive of students of color*	43.4	37.5		90.9	75.0		0.0	0.0
Inclusive by gender*	38.4	45.8		77.7	62.5		8.2	20.8
Inclusive of international students	N/A	62.5		N/A	83.3		N/A	0.0
Inclusive of students with disabilities*	47.2	37.5		73.3	62.5		0.0	8.3
Inclusive of first generation students	N/A	37.5		N/A	66.7		N/A	0.0
Inclusive of students of all sexual orientations	36.0	41.7		84.5	79.2		0.0	0.0
* 2012 survey included minor edits to question text	At least 33.3% of respondents 'Strongly Agreed' with 6 statements about the climate of their program in 2012, compared to 6 statements in 2009.			At least 50% of respondents 'Strongly Agreed' with 11 statements about the climate of their program in 2012, compared to 8 statements in 2009.			At least 20% of respondents 'Disagreed' or 'Strongly Disagreed' with 2 statements about the climate of their program in 2012, compared to 0 statements in 2009.	
	At least 50% of respondents 'Strongly Agreed' with 1 statements about the climate of their program in 2012, compared to 0 statements in 2009.			At least 75% of respondents 'Strongly Agreed' with 3 statements about the climate of their program in 2012, compared to 4 statements in 2009.				

## Geological Sciences

*Program Satisfaction: percentage of respondents who rated the following features of their program as...*

	<b>Excellent</b>		<b>Excellent or Very Good</b>		<b>Fair or Poor</b>	
	2009 (N = 17)	2012 (N = 32)	2009 (N = 17)	2012 (N = 32)	2009 (N = 17)	2012 (N = 32)
Quality of the faculty	40.3	43.3	100.0	90.0	0.0	0.0
Overall Program quality	18.4	36.7	94.3	86.7	0.0	0.0
Financial support for graduate students	25.3	40.0	74.7	73.3	19.6	3.3
Program's performance in keeping pace with recent developments in my field	36.7	36.7	87.3	86.7	0.0	0.0
Quality of academic guidance and advising	12.7	13.3	58.8	53.3	5.7	13.3
Intellectual community in Program	49.4	53.3	81.7	83.3	6.9	3.3
Training/ assistance about career and professional development	N/A	0.0	N/A	23.3	N/A	50.0
Space, facilities and equipment	42.4	16.7	80.4	80.0	0.0	10.0
Process for involving students in Program decisions that affect graduate students*	12.7	50.0	45.0	83.3	18.4	3.3
Research opportunities in my program	N/A	63.3	N/A	90.0	N/A	3.3
Fairness of the evaluation criteria used to assess graduate students	6.9	16.7	46.1	50.0	11.4	20.0
Program's efforts to promote a diverse, inclusive community*	0.0	10.0	51.8	50.0	11.4	10.0
Training/assistance about grants and other external funding	N/A	13.8	N/A	24.1	N/A	51.7
Adequacy of preparation for teaching	0.0	3.3	75.9	23.3	11.4	33.3
Clarity of the evaluation criteria used to assess graduate students	0.0	6.7	20.8	40.0	35.5	26.7
Support for interdisciplinary inquiry	25.3	36.7	75.9	60.0	17.1	10.0
Training about professional ethics/academic integrity*	6.1	13.3	35.6	33.3	24.2	33.3
* 2012 survey included minor edits to question text	8 features rated as 'Excellent' by at least 33.3% of students in 2012, compared to 4 in 2009.		12 features rated as 'Excellent' or 'Very Good' by at least 50% of students in 2012, compared to 10 in 2009.		6 features rated as 'Fair' or 'Poor' by at least 20% of students in 2012, compared to 2 in 2009.	
	3 features rated as 'Excellent' by at least 50% of students in 2012, compared to 0 in 2009.		7 features rated as 'Excellent' or 'Very Good' by at least 75% of students in 2012, compared to 7 in 2009.			

Geological Sciences

Advisor: percentage of respondents who Agreed/Disagreed with each of the following statements about their advisor.

	Strongly Agreed		Disagreed or Strongly Disagreed	
	2009 (N = 17)	2012 (N = 32)	2009 (N = 17)	2012 (N = 32)
Encourages me in my scholarly pursuits	70.2	69.0	0.0	0.0
Treats my ideas with respect	50.6	79.3	0.0	0.0
Provides constructive feedback on my work*	77.2	69.0	0.0	6.9
Provides timely feedback on my work	57.6	58.6	0.0	10.3
Is available when I need help or advice	64.5	41.4	0.0	6.9
Would support me in any career path I choose (academic or a career outside the academy)	N/A	64.3	N/A	3.6
Treats students in the department equitably regardless of their backgrounds*	64.5	69.0	5.7	6.9
Has emphasized the importance of professional ethics in our field*	26.5	31.0	5.7	10.3
Helps me secure external or internal funding for my graduate studies, research or creative work*	74.7	48.3	11.4	13.8
Helps me develop professional relationships with others in the field	51.8	41.4	29.8	17.2
Advises me about how to get my work published, performed or shown	64.5	53.6	17.1	17.9
Encourages the expression of intellectual differences or disagreements*	39.2	55.2	11.4	6.9
Makes me feel comfortable talking about issues I am facing in graduate school	33.5	31.0	17.1	10.3
* 2012 survey included minor edits to question text	At least 50% of respondents 'Strongly Agreed' with 8 statements about their advisors in 2012, compared to 9 statements in 2009.		At least 20% of respondents 'Disagreed' or 'Strongly Disagreed' with 0 statements about their advisors in 2012, compared to 1 statements in 2009.	
	At least 75% of respondents 'Strongly Agreed' with 1 statements about their advisors in 2012, compared to 1 statements in 2009.			

## Geological Sciences

*Climate: percentage of respondents who Agreed/Disagreed that their program is like the description*

	<b>Strongly Agreed</b>		<b>Strongly Agreed or Agreed</b>		<b>Disagreed or Strongly Disagreed</b>	
	2009 (N = 17)	2012 (N = 32)	2009 (N = 17)	2012 (N = 32)	2009 (N = 17)	2012 (N = 32)
Collegial	N/A	55.2	N/A	89.7	N/A	0.0
Encouraging	50.6	55.2	87.3	82.8	0.0	3.4
Supportive	38.0	48.3	81.7	82.8	5.7	0.0
Intellectually open to multiple theoretical, methodological or creative approaches*	36.7	58.6	88.5	86.2	0.0	0.0
Open to interdisciplinary inquiry	31.0	58.6	94.3	82.8	5.7	3.4
Inclusive of students of color*	38.0	20.7	69.0	55.2	5.7	6.9
Inclusive by gender*	75.9	55.2	88.6	89.7	0.0	3.4
Inclusive of international students	N/A	27.6	N/A	62.1	N/A	0.0
Inclusive of students with disabilities*	7.4	14.8	46.4	44.4	6.1	11.1
Inclusive of first generation students	N/A	25.9	N/A	59.3	N/A	7.4
Inclusive of students of all sexual orientations	46.3	42.9	80.5	85.7	0.0	3.6
* 2012 survey included minor edits to question text	At least 33.3% of respondents 'Strongly Agreed' with 7 statements about the climate of their program in 2012, compared to 6 statements in 2009.		At least 50% of respondents 'Strongly Agreed' with 10 statements about the climate of their program in 2012, compared to 7 statements in 2009.		At least 20% of respondents 'Disagreed' or 'Strongly Disagreed' with 0 statements about the climate of their program in 2012, compared to 0 statements in 2009.	
	At least 50% of respondents 'Strongly Agreed' with 5 statements about the climate of their program in 2012, compared to 2 statements in 2009.		At least 75% of respondents 'Strongly Agreed' with 7 statements about the climate of their program in 2012, compared to 6 statements in 2009.			

## Human Physiology

*Program Satisfaction: percentage of respondents who rated the following features of their program as...*

	<b>Excellent</b>			<b>Excellent or Very Good</b>			<b>Fair or Poor</b>	
	2009 (N = 31)	2012 (N = 25)		2009 (N = 31)	2012 (N = 25)		2009 (N = 31)	2012 (N = 25)
Quality of the faculty	58.6	70.8		81.7	87.5		3.6	4.2
Overall Program quality	41.0	58.3		84.7	83.3		6.5	4.2
Financial support for graduate students	26.7	50.0		55.1	66.7		26.1	4.2
Program's performance in keeping pace with recent developments in my field	55.7	52.2		93.5	78.3		3.6	4.3
Quality of academic guidance and advising	39.7	52.2		87.0	78.3		2.9	13.0
Intellectual community in Program	36.8	47.8		78.2	82.6		6.5	4.3
Training/ assistance about career and professional development	N/A	54.2		N/A	91.7		N/A	4.2
Space, facilities and equipment	33.8	29.2		59.9	45.8		7.2	20.8
Process for involving students in Program decisions that affect graduate students*	26.7	25.0		52.1	66.7		7.1	8.3
Research opportunities in my program	N/A	54.2		N/A	79.2		N/A	8.3
Fairness of the evaluation criteria used to assess graduate students	23.7	39.1		68.0	73.9		6.5	13.0
Program's efforts to promote a diverse, inclusive community*	33.8	25.0		61.5	54.2		9.4	8.3
Training/assistance about grants and other external funding	N/A	16.7		N/A	58.3		N/A	12.5
Adequacy of preparation for teaching	27.3	37.5		55.0	70.8		5.9	12.5
Clarity of the evaluation criteria used to assess graduate students	16.6	29.2		59.9	62.5		16.0	12.5
Support for interdisciplinary inquiry	15.3	12.5		62.8	41.7		12.4	12.5
Training about professional ethics/academic integrity*	30.3	45.8		77.6	83.3		6.5	4.2
* 2012 survey included minor edits to question text			11 features rated as 'Excellent' by at least 33.3% of students in 2012, compared to 7 in 2009.	15 features rated as 'Excellent' or 'Very Good' by at least 50% of students in 2012, compared to 14 in 2009.		1 features rated as 'Fair' or 'Poor' by at least 20% of students in 2012, compared to 1 in 2009.		
			7 features rated as 'Excellent' by at least 50% of students in 2012, compared to 2 in 2009.	8 features rated as 'Excellent' or 'Very Good' by at least 75% of students in 2012, compared to 6 in 2009.				

Human Physiology

Advisor: percentage of respondents who Agreed/Disagreed with each of the following statements about their advisor.

	Strongly Agreed		Disagreed or Strongly Disagreed	
	2009 (N = 31)	2012 (N = 25)	2009 (N = 31)	2012 (N = 25)
Encourages me in my scholarly pursuits	84.7	79.2	0.0	4.2
Treats my ideas with respect	78.2	82.6	0.0	4.3
Provides constructive feedback on my work*	81.7	70.8	0.0	4.2
Provides timely feedback on my work	68.1	73.9	3.6	4.3
Is available when I need help or advice	64.5	83.3	6.5	4.2
Would support me in any career path I choose (academic or a career outside the academy)	N/A	70.8	N/A	0.0
Treats students in the department equitably regardless of their backgrounds*	62.2	75.0	9.5	0.0
Has emphasized the importance of professional ethics in our field*	68.1	66.7	2.9	0.0
Helps me secure external or internal funding for my graduate studies, research or creative work*	49.2	87.5	6.5	4.2
Helps me develop professional relationships with others in the field	68.7	70.8	3.6	0.0
Advises me about how to get my work published, performed or shown	63.2	79.2	3.7	0.0
Encourages the expression of intellectual differences or disagreements*	63.8	70.8	3.7	4.2
Makes me feel comfortable talking about issues I am facing in graduate school	64.5	66.7	13.0	4.2
* 2012 survey included minor edits to question text	At least 50% of respondents 'Strongly Agreed' with 13 statements about their advisors in 2012, compared to 11 statements in 2009.		At least 20% of respondents 'Disagreed' or 'Strongly Disagreed' with 0 statements about their advisors in 2012, compared to 0 statements in 2009.	
	At least 75% of respondents 'Strongly Agreed' with 6 statements about their advisors in 2012, compared to 3 statements in 2009.			



## Human Physiology

*Climate: percentage of respondents who Agreed/Disagreed that their program is like the description*

	Strongly Agreed		Strongly Agreed or Agreed		Disagreed or Strongly Disagreed	
	2009 (N = 31)	2012 (N = 25)	2009 (N = 31)	2012 (N = 25)	2009 (N = 31)	2012 (N = 25)
Collegial	N/A	33.3	N/A	83.3	N/A	4.2
Encouraging	65.8	54.2	84.7	91.7	3.6	4.2
Supportive	52.0	65.2	86.6	91.3	3.0	4.3
Intellectually open to multiple theoretical, methodological or creative approaches*	53.4	58.3	81.1	79.2	3.6	8.3
Open to interdisciplinary inquiry	40.3	33.3	81.0	70.8	6.5	8.3
Inclusive of students of color*	62.2	37.5	87.0	62.5	10.0	4.2
Inclusive by gender*	55.7	66.7	84.1	79.2	3.6	4.2
Inclusive of international students	N/A	66.7	N/A	75.0	N/A	4.2
Inclusive of students with disabilities*	33.8	25.0	66.4	50.0	5.8	8.3
Inclusive of first generation students	N/A	45.8	N/A	62.5	N/A	4.2
Inclusive of students of all sexual orientations	50.4	45.8	72.2	75.0	0.0	4.2
* 2012 survey included minor edits to question text	At least 33.3% of respondents 'Strongly Agreed' with 10 statements about the climate of their program in 2012, compared to 8 statements in 2009.		At least 50% of respondents 'Strongly Agreed' with 11 statements about the climate of their program in 2012, compared to 8 statements in 2009.		At least 20% of respondents 'Disagreed' or 'Strongly Disagreed' with 0 statements about the climate of their program in 2012, compared to 0 statements in 2009.	
	At least 50% of respondents 'Strongly Agreed' with 5 statements about the climate of their program in 2012, compared to 6 statements in 2009.		At least 75% of respondents 'Strongly Agreed' with 7 statements about the climate of their program in 2012, compared to 6 statements in 2009.			

## Mathematics

**Program Satisfaction: percentage of respondents who rated the following features of their program as...**

	<b>Excellent</b>			<b>Excellent or Very Good</b>			<b>Fair or Poor</b>	
	2009 (N = 34)	2012 (N = 32)		2009 (N = 34)	2012 (N = 32)		2009 (N = 34)	2012 (N = 32)
Quality of the faculty	53.7	35.5		74.7	90.3		2.7	3.2
Overall Program quality	43.9	32.3		84.3	90.3		5.9	6.5
Financial support for graduate students	47.7	74.2		90.8	90.3		5.9	6.5
Program's performance in keeping pace with recent developments in my field	54.8	41.9		81.7	96.8		6.4	0.0
Quality of academic guidance and advising	18.3	9.7		49.8	35.5		18.8	12.9
Intellectual community in Program	69.3	41.9		88.2	93.5		5.9	6.5
Training/ assistance about career and professional development	N/A	6.5		N/A	22.6		N/A	22.6
Space, facilities and equipment	28.6	41.9		47.5	74.2		22.1	6.5
Process for involving students in Program decisions that affect graduate students*	9.1	16.1		64.3	61.3		15.6	16.1
Research opportunities in my program	N/A	29.0		N/A	80.6		N/A	3.2
Fairness of the evaluation criteria used to assess graduate students	19.1	22.6		59.5	54.8		12.4	9.7
Program's efforts to promote a diverse, inclusive community*	22.5	19.4		44.8	51.6		6.2	19.4
Training/assistance about grants and other external funding	N/A	6.5		N/A	19.4		N/A	35.5
Adequacy of preparation for teaching	46.6	48.4		87.6	83.9		9.1	12.9
Clarity of the evaluation criteria used to assess graduate students	21.8	12.9		53.7	38.7		15.6	29.0
Support for interdisciplinary inquiry	0.0	0.0		19.7	6.5		6.9	58.1
Training about professional ethics/academic integrity*	24.5	12.9		55.8	38.7		18.9	29.0
* 2012 survey included minor edits to question text	6 features rated as 'Excellent' by at least 33.3% of students in 2012, compared to 6 in 2009.			11 features rated as 'Excellent' or 'Very Good' by at least 50% of students in 2012, compared to 10 in 2009.			5 features rated as 'Fair' or 'Poor' by at least 20% of students in 2012, compared to 1 in 2009.	
	1 features rated as 'Excellent' by at least 50% of students in 2012, compared to 3 in 2009.			7 features rated as 'Excellent' or 'Very Good' by at least 75% of students in 2012, compared to 5 in 2009.				

## Mathematics

*Advisor: percentage of respondents who Agreed/Disagreed with each of the following statements about their advisor.*

	Strongly Agreed		Disagreed or Strongly Disagreed	
	2009 (N = 34)	2012 (N = 32)	2009 (N = 34)	2012 (N = 32)
Encourages me in my scholarly pursuits	56.1	43.5	0.0	0.0
Treats my ideas with respect	52.7	39.1	0.0	8.7
Provides constructive feedback on my work*	45.7	43.5	0.0	8.7
Provides timely feedback on my work	32.5	39.1	0.0	4.3
Is available when I need help or advice	56.1	47.8	6.9	4.3
Would support me in any career path I choose (academic or a career outside the academy)	N/A	47.8	N/A	0.0
Treats students in the department equitably regardless of their backgrounds*	53.9	52.2	0.0	4.3
Has emphasized the importance of professional ethics in our field*	39.4	26.1	0.0	8.7
Helps me secure external or internal funding for my graduate studies, research or creative work*	30.6	13.0	2.9	17.4
Helps me develop professional relationships with others in the field	37.5	26.1	9.2	8.7
Advises me about how to get my work published, performed or shown	41.0	52.2	2.9	4.3
Encourages the expression of intellectual differences or disagreements*	41.0	30.4	2.9	8.7
Makes me feel comfortable talking about issues I am facing in graduate school	43.5	30.4	0.0	13.0
* 2012 survey included minor edits to question text	At least 50% of respondents 'Strongly Agreed' with 2 statements about their advisors in 2012, compared to 4 statements in 2009.		At least 20% of respondents 'Disagreed' or 'Strongly Disagreed' with 0 statements about their advisor in 2012, compared to 0 statements in 2009.	
	At least 75% of respondents 'Strongly Agreed' with 0 statements about their advisors in 2012, compared to 0 statements in 2009.			

## Mathematics

*Climate: percentage of respondents who Agreed/Disagreed that their program is like the description*

	<b>Strongly Agreed</b>			<b>Strongly Agreed or Agreed</b>			<b>Disagreed or Strongly Disagreed</b>	
	2009 (N = 34)	2012 (N = 32)		2009 (N = 34)	2012 (N = 32)		2009 (N = 34)	2012 (N = 32)
Collegial	N/A	40.0		N/A	90.0		N/A	3.3
Encouraging	47.2	33.3		81.2	73.3		18.9	0.0
Supportive	36.5	30.0		81.0	76.7		9.5	10.0
Intellectually open to multiple theoretical, methodological or creative approaches*	28.3	34.5		72.0	79.3		9.2	3.4
Open to interdisciplinary inquiry	9.7	10.0		49.3	20.0		9.5	40.0
Inclusive of students of color*	42.6	27.6		64.9	58.6		6.7	13.8
Inclusive by gender*	31.5	33.3		44.5	66.7		12.4	13.3
Inclusive of international students	N/A	50.0		N/A	86.7		N/A	6.7
Inclusive of students with disabilities*	39.3	30.0		71.6	53.3		8.9	10.0
Inclusive of first generation students	N/A	34.5		N/A	69.0		N/A	6.9
Inclusive of students of all sexual orientations	36.5	40.0		74.9	83.3		2.8	0.0
* 2012 survey included minor edits to question text	At least 33.3% of respondents 'Strongly Agreed' with 7 statements about the climate of their program in 2012, compared to 5 statements in 2009.			At least 50% of respondents 'Strongly Agreed' with 10 statements about the climate of their program in 2012, compared to 6 statements in 2009.			At least 20% of respondents 'Disagreed' or 'Strongly Disagreed' with 1 statements about the climate of their program in 2012, compared to 0 statements in 2009.	
	At least 50% of respondents 'Strongly Agreed' with 1 statements about the climate of their program in 2012, compared to 0 statements in 2009.			At least 75% of respondents 'Strongly Agreed' with 5 statements about the climate of their program in 2012, compared to 2 statements in 2009.				

## Physics

**Program Satisfaction: percentage of respondents who rated the following features of their program as...**

	<b>Excellent</b>		<b>Excellent or Very Good</b>		<b>Fair or Poor</b>	
	2009 (N = 33)	2012 (N = 48)	2009 (N = 33)	2012 (N = 48)	2009 (N = 33)	2012 (N = 48)
Quality of the faculty	6.5	34.1	84.0	86.4	2.9	2.3
Overall Program quality	3.6	29.5	66.1	79.5	0.0	2.3
Financial support for graduate students	37.5	63.6	74.6	84.1	3.6	2.3
Program's performance in keeping pace with recent developments in my field	10.1	29.5	66.8	72.7	3.6	4.5
Quality of academic guidance and advising	6.5	13.6	30.5	43.2	26.7	27.3
Intellectual community in Program	23.1	36.4	84.0	77.3	5.9	11.4
Training/ assistance about career and professional development	N/A	11.4	N/A	29.5	N/A	47.7
Space, facilities and equipment	30.9	38.6	83.3	81.8	0.0	2.3
Process for involving students in Program decisions that affect graduate students*	10.1	20.5	42.7	63.6	20.2	20.5
Research opportunities in my program	N/A	43.2	N/A	75.0	N/A	9.1
Fairness of the evaluation criteria used to assess graduate students	13.5	25.0	40.6	56.8	37.2	15.9
Program's efforts to promote a diverse, inclusive community*	7.4	27.3	34.5	50.0	37.6	18.2
Training/assistance about grants and other external funding	N/A	2.3	N/A	27.3	N/A	40.9
Adequacy of preparation for teaching	0.0	11.4	20.6	38.6	35.1	27.3
Clarity of the evaluation criteria used to assess graduate students	9.5	6.8	32.3	43.2	41.7	11.4
Support for interdisciplinary inquiry	10.7	20.5	30.9	61.4	23.1	20.5
Training about professional ethics/academic integrity*	3.6	4.5	19.6	20.5	37.4	50.0
* 2012 survey included minor edits to question text	5 features rated as 'Excellent' by at least 33.3% of students in 2012, compared to 1 in 2009.		11 features rated as 'Excellent' or 'Very Good' by at least 50% of students in 2012, compared to 6 in 2009.		7 features rated as 'Fair' or 'Poor' by at least 20% of students in 2012, compared to 8 in 2009.	
	1 features rated as 'Excellent' by at least 50% of students in 2012, compared to 0 in 2009.		6 features rated as 'Excellent' or 'Very Good' by at least 75% of students in 2012, compared to 3 in 2009.			

## Physics

*Advisor: percentage of respondents who Agreed/Disagreed with each of the following statements about their advisor.*

	<b>Strongly Agreed</b>		<b>Disagreed or Strongly Disagreed</b>	
	2009 (N = 33)	2012 (N = 48)	2009 (N = 33)	2012 (N = 48)
Encourages me in my scholarly pursuits	56.5	60.0	0.0	7.5
Treats my ideas with respect	59.6	55.0	3.0	2.5
Provides constructive feedback on my work*	37.4	47.5	3.7	5.0
Provides timely feedback on my work	41.7	42.5	7.4	12.5
Is available when I need help or advice	51.5	47.5	3.7	0.0
Would support me in any career path I choose (academic or a career outside the academy)	N/A	50.0	N/A	7.5
Treats students in the department equitably regardless of their backgrounds*	50.9	56.4	7.4	5.1
Has emphasized the importance of professional ethics in our field*	32.3	35.0	7.6	10.0
Helps me secure external or internal funding for my graduate studies, research or creative work*	52.2	52.5	0.0	0.0
Helps me develop professional relationships with others in the field	33.0	35.0	6.9	10.0
Advises me about how to get my work published, performed or shown	44.7	35.0	3.8	5.0
Encourages the expression of intellectual differences or disagreements*	29.2	42.1	14.6	10.5
Makes me feel comfortable talking about issues I am facing in graduate school	23.9	40.0	13.5	15.0
* 2012 survey included minor edits to question text	At least 50% of respondents 'Strongly Agreed' with 5 statements about their advisors in 2012, compared to 5 statements in 2009.		At least 20% of respondents 'Disagreed' or 'Strongly Disagreed' with 0 statements about their advisor in 2012, compared to 0 statements in 2009.	
	At least 75% of respondents 'Strongly Agreed' with 0 statements about their advisors in 2012, compared to 0 statements in 2009.			

## Physics

*Climate: percentage of respondents who Agreed/Disagreed that their program is like the description*

	<b>Strongly Agreed</b>			<b>Strongly Agreed or Agreed</b>			<b>Disagreed or Strongly Disagreed</b>	
	2009 (N = 33)	2012 (N = 48)		2009 (N = 33)	2012 (N = 48)		2009 (N = 33)	2012 (N = 48)
Collegial	N/A	55.8		N/A	76.7		N/A	2.3
Encouraging	5.9	36.4		79.8	65.9		2.9	15.9
Supportive	15.4	43.2		73.3	75.0		6.5	9.1
Intellectually open to multiple theoretical, methodological or creative approaches*	25.4	31.8		65.1	75.0		10.8	6.8
Open to interdisciplinary inquiry	32.1	27.3		66.2	72.7		10.5	0.0
Inclusive of students of color*	13.3	45.5		59.6	72.7		20.2	2.3
Inclusive by gender*	9.7	52.3		56.0	70.5		20.2	15.9
Inclusive of international students	N/A	52.3		N/A	90.9		N/A	2.3
Inclusive of students with disabilities*	17.8	32.6		59.9	58.1		7.7	9.3
Inclusive of first generation students	N/A	36.4		N/A	63.6		N/A	6.8
Inclusive of students of all sexual orientations	26.1	47.7		69.1	86.4		0.0	2.3
* 2012 survey included minor edits to question text	At least 33.3% of respondents 'Strongly Agreed' with 8 statements about the climate of their program in 2012, compared to 0 statements in 2009.			At least 50% of respondents 'Strongly Agreed' with 11 statements about the climate of their program in 2012, compared to 8 statements in 2009.			At least 20% of respondents 'Disagreed' or 'Strongly Disagreed' with 0 statements about the climate of their program in 2012, compared to 2 statements in 2009.	
	At least 50% of respondents 'Strongly Agreed' with 3 statements about the climate of their program in 2012, compared to 0 statements in 2009.			At least 75% of respondents 'Strongly Agreed' with 5 statements about the climate of their program in 2012, compared to 1 statements in 2009.				

## Psychology

**Program Satisfaction: percentage of respondents who rated the following features of their program as...**

	<b>Excellent</b>		<b>Excellent or Very Good</b>		<b>Fair or Poor</b>	
	2009 (N = 41)	2012 (N = 59)	2009 (N = 41)	2012 (N = 59)	2009 (N = 41)	2012 (N = 59)
Quality of the faculty	31.2	55.4	90.3	87.5	4.9	3.6
Overall Program quality	24.3	30.4	85.3	78.6	4.8	8.9
Financial support for graduate students	12.0	35.7	32.4	66.1	34.1	14.3
Program's performance in keeping pace with recent developments in my field	24.9	46.4	74.0	76.8	9.9	5.4
Quality of academic guidance and advising	33.3	26.8	75.8	66.1	14.5	12.5
Intellectual community in Program	39.7	48.2	89.9	73.2	2.5	5.4
Training/ assistance about career and professional development	N/A	8.9	N/A	32.1	N/A	28.6
Space, facilities and equipment	9.7	10.7	32.8	35.7	29.0	26.8
Process for involving students in Program decisions that affect graduate students*	15.1	21.4	64.0	55.4	7.3	19.6
Research opportunities in my program	N/A	51.8	N/A	87.5	N/A	3.6
Fairness of the evaluation criteria used to assess graduate students	19.9	28.6	61.4	64.3	9.4	14.3
Program's efforts to promote a diverse, inclusive community*	22.6	19.6	59.2	48.2	14.0	23.2
Training/assistance about grants and other external funding	N/A	9.1	N/A	32.7	N/A	34.5
Adequacy of preparation for teaching	15.3	3.6	33.6	26.8	26.0	50.0
Clarity of the evaluation criteria used to assess graduate students	12.5	12.5	56.3	39.3	9.9	17.9
Support for interdisciplinary inquiry	17.1	41.1	51.2	64.3	14.0	7.1
Training about professional ethics/academic integrity*	15.3	17.9	59.3	51.8	12.2	19.6
* 2012 survey included minor edits to question text	6 features rated as 'Excellent' by at least 33.3% of students in 2012, compared to 1 in 2009.		11 features rated as 'Excellent' or 'Very Good' by at least 50% of students in 2012, compared to 11 in 2009.		5 features rated as 'Fair' or 'Poor' by at least 20% of students in 2012, compared to 3 in 2009.	
	2 features rated as 'Excellent' by at least 50% of students in 2012, compared to 0 in 2009.		4 features rated as 'Excellent' or 'Very Good' by at least 75% of students in 2012, compared to 4 in 2009.			



Psychology

Advisor: percentage of respondents who Agreed/Disagreed with each of the following statements about their advisor.

	Strongly Agreed		Disagreed or Strongly Disagreed	
	2009 (N = 41)	2012 (N = 59)	2009 (N = 41)	2012 (N = 59)
Encourages me in my scholarly pursuits	75.8	71.4	2.3	5.4
Treats my ideas with respect	70.1	75.0	0.0	1.8
Provides constructive feedback on my work*	65.7	62.5	2.3	5.4
Provides timely feedback on my work	29.5	48.2	14.8	16.1
Is available when I need help or advice	48.9	57.1	9.7	10.7
Would support me in any career path I choose (academic or a career outside the academy)	N/A	69.6	N/A	1.8
Treats students in the department equitably regardless of their backgrounds*	61.4	83.9	7.4	0.0
Has emphasized the importance of professional ethics in our field*	50.9	55.4	9.7	5.4
Helps me secure external or internal funding for my graduate studies, research or creative work*	50.1	46.4	9.2	17.9
Helps me develop professional relationships with others in the field	44.8	48.2	9.2	17.9
Advises me about how to get my work published, performed or shown	64.2	50.9	9.7	10.9
Encourages the expression of intellectual differences or disagreements*	51.2	53.6	7.4	8.9
Makes me feel comfortable talking about issues I am facing in graduate school	53.0	58.9	12.5	10.7
* 2012 survey included minor edits to question text	At least 50% of respondents 'Strongly Agreed' with 10 statements about their advisors in 2012, compared to 9 statements in 2009.		At least 20% of respondents 'Disagreed' or 'Strongly Disagreed' with 0 statements about their advisors in 2012, compared to 0 statements in 2009.	
	At least 75% of respondents 'Strongly Agreed' with 2 statements about their advisors in 2012, compared to 1 statements in 2009.			

## Psychology

*Climate: percentage of respondents who Agreed/Disagreed that their program is like the description*

	Strongly Agreed		Strongly Agreed or Agreed		Disagreed or Strongly Disagreed	
	2009 (N = 41)	2012 (N = 59)	2009 (N = 41)	2012 (N = 59)	2009 (N = 41)	2012 (N = 59)
Collegial	N/A	64.8	N/A	92.6	N/A	3.7
Encouraging	51.4	58.2	92.9	87.3	4.8	3.6
Supportive	56.5	57.1	95.2	80.4	4.8	7.1
Intellectually open to multiple theoretical, methodological or creative approaches*	26.9	58.9	76.3	83.9	6.9	5.4
Open to interdisciplinary inquiry	33.8	51.8	87.8	89.3	7.1	1.8
Inclusive of students of color*	35.8	42.9	69.4	71.4	9.4	10.7
Inclusive by gender*	47.8	58.9	81.4	91.1	7.1	1.8
Inclusive of international students	N/A	41.1	N/A	67.9	N/A	3.6
Inclusive of students with disabilities*	30.2	29.1	64.8	50.9	7.1	12.7
Inclusive of first generation students	N/A	32.1	N/A	62.5	N/A	8.9
Inclusive of students of all sexual orientations	49.6	66.1	88.3	87.5	0.0	5.4
* 2012 survey included minor edits to question text	At least 33.3% of respondents 'Strongly Agreed' with 9 statements about the climate of their program in 2012, compared to 6 statements in 2009.		At least 50% of respondents 'Strongly Agreed' with 11 statements about the climate of their program in 2012, compared to 8 statements in 2009.		At least 20% of respondents 'Disagreed' or 'Strongly Disagreed' with 0 statements about the climate of their program in 2012, compared to 0 statements in 2009.	
	At least 50% of respondents 'Strongly Agreed' with 7 statements about the climate of their program in 2012, compared to 2 statements in 2009.		At least 75% of respondents 'Strongly Agreed' with 7 statements about the climate of their program in 2012, compared to 6 statements in 2009.			