

**2021 Guarini School of Graduate and Advanced Studies Survey
Overall Results (Ph.D. only)**

Dartmouth College
Office of Institutional Research
April 2021



Methods and Sample

- One thousand and three graduate students (including Ph.D. and master's) from the Guarini School of Graduate and Advanced Studies and Thayer were invited to participate via email.
- The survey was administered electronically.
- The survey invitation and four email reminders were sent from the Office of Institutional Research.
- Data collection lasted six weeks.
- A gift certificate to the Pine Restaurant for \$50.00 was provided as an incentive.
- Overall response rate was 47% (467/1,003). The response rate for Ph.D. students was 53% (350/662) and for Master's was 34% (117/341).
- There were no statistically significant differences between survey respondents and non-respondents due to race/ethnicity ($\chi^2 = 2.14$, $p > 0.05$), or student type ($\chi^2 = 0.38$, $p > 0.05$). Statistical significant differences were found between majors ($\chi^2 = 109.03$, $p < 0.0001$), with responses highest among students who majored in Molecular Medicine (PEMM, 85%), and lowest among students who majored in Health Care Delivery Science (HCDS, 11%). See Appendix 1 for details.

Respondent Characteristics

Major		
	N	Percent
Biochemistry & Cell Biology (BCB)	27	8%
Cancer Biology (CANB)	9	3%
Chemistry (CHEM)	33	9%
Computer Science (COSC)	27	8%
Earth Sciences (EARS)	8	2%
Ecology & Evolutionary Biology (EEB)	8	2%
Ecology, Evolution, Ecosystems & Society (EEES)	23	7%
Engineering Sciences (ENGS)	51	15%
Health Pol & Clinical Practice (HPCP)	2	1%
Math (MATH)	5	1%
Microbiology (MICR)	33	9%
Molecular & Cellular Biology (MCB)	20	6%
Molecular and Systems Biology (MSB)	12	3%
Physics (PHYS)	15	4%
Program in Molecular Medicine (PEMM)	22	6%
Psychological & Brain Sciences (PBS)	33	9%
Quantitative Biomedical Sciences (QBS)	20	6%
The Dartmouth Institute (TDI)	2	1%
	350	100%

Gender		
	N	Percent
Female	187	53%
Male	163	47%
	350	100%

Race/Ethnicity/Citizenship		
	N	Percent
International	132	38%
Minority	53	15%

Guarini 2021 Survey Results (PhD only)

Race/Ethnicity/Citizenship		
	N	Percent
Unknown	8	2%
White	157	45%
	350	100%

Student Type		
	N	Percent
Continuing	269	77%
New	81	23%
	350	100%

Stage of graduate studies

Q1. Year in Program:		
	N	Percent
First year	76	22%
Second year	76	22%
Third year	65	19%
Fourth year	53	15%
Fifth year	44	13%
> 5 years	36	10%
	350	100%

Overall Satisfaction

Q2. Overall, how satisfied are you with your graduate education?						
Scale: 1 = Very dissatisfied, ... 5 = Very satisfied						
Overall Average	Very dissatisfied	Generally dissatisfied	Ambivalent	Generally satisfied	Very satisfied	N
3.78	2%	9%	14%	61%	15%	336

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Q3. Please rate each of the following.							
Scale: 1 = Poor, 2 = Fair, 3 = Good, 4 = Very good, 5 = Excellent							
	Overall Average	Poor	Fair	Good	Very Good	Excellent	N
Your academic experience at Dartmouth	3.66	3%	10%	25%	42%	20%	350
Your student life experience at Dartmouth	3.00	9%	21%	37%	23%	9%	349
Your overall experience at Dartmouth	3.42	3%	14%	34%	36%	12%	348

Resources and Services

Q4. Please rate the quality of the following support and services provided by Dartmouth.									
Scale: 1 = Poor, 2 = Fair, 3 = Good, 4 = Very good, 5 = Excellent									
	Overall Average	Poor	Fair	Good	Very Good	Excellent	N	N Not Available or Not used	N Total
Financial support provided by Dartmouth	3.26	9%	21%	29%	21%	21%	280	53	333
Programs and resources of the writing center or program (RWIT)	3.60	2%	9%	39%	27%	23%	100	233	333
Programs and resources of the teaching center or program (DCAL)	3.83	2%	7%	28%	34%	29%	184	149	333
Parental support	3.07	22%	17%	18%	19%	24%	90	243	333
Housing support	2.10	46%	23%	13%	13%	6%	222	110	332
Power dynamics support	2.63	26%	26%	19%	18%	11%	176	155	331
Health insurance coverage provided by Dartmouth	3.10	15%	20%	23%	23%	19%	298	35	333
Information technology resources	3.87	1%	7%	25%	38%	29%	278	52	330
Laboratory, clinical, studio, or other physical facilities	3.95	2%	6%	23%	35%	34%	296	37	333
Your personal workspace (e.g., desk or office)	3.50	3%	20%	27%	25%	26%	302	31	333
Guarini School professional development offerings	3.21	7%	21%	32%	23%	17%	210	121	331
Psychological counseling services	3.04	17%	19%	25%	22%	18%	171	161	332
Campus health care services	3.74	3%	11%	26%	30%	30%	293	38	331
Programs and services for international students	3.16	9%	26%	24%	26%	16%	129	204	333

Program Climate

Q5. Using a scale of 1–5, please rate the department or program climate on the following dimensions							
1 = Negative... 5 = Positive (Value was recoded for items with an *)							
	Overall Average	1	2	3	4	5	N
friendly: hostile*	4.24	1%	4%	11%	36%	47%	318
collegial: contentious*	3.92	2%	6%	21%	41%	31%	318
non-sexist: sexist*	3.57	3%	16%	30%	25%	27%	320
collaborative: individualistic*	3.75	6%	11%	17%	35%	31%	320
cooperative: competitive*	3.96	3%	5%	17%	41%	33%	319
not supportive: supportive	3.87	5%	10%	11%	44%	31%	321
rigid: flexible	3.66	4%	8%	26%	43%	19%	320
threatening: protective	3.68	3%	5%	33%	41%	19%	320
encouraging: discouraging*	3.96	3%	6%	16%	42%	33%	320
inclusive: exclusionary*	3.75	3%	9%	25%	37%	26%	320
positive for persons with disabilities: negative for persons with disabilities*	3.46	4%	8%	48%	21%	20%	310
positive for people who are non-US citizens: negative for people who are non-US citizens*	3.65	2%	9%	35%	29%	24%	315
positive for people with mental health struggles: negative for people with mental health struggles*	3.22	9%	19%	33%	21%	18%	317
positive for people with non-traditional education/career trajectories: negative for people with non-traditional education/career trajectories*	3.50	5%	12%	33%	28%	22%	316
positive for people who identify as lesbian, gay, bisexual, queer or transgender: negative for people who identify as lesbian, gay, bisexual, queer or transgender*	3.75	2%	6%	37%	27%	28%	311
positive for people of spiritual/religious backgrounds: negative for people of spiritual/religious backgrounds*	3.59	2%	5%	46%	25%	21%	312
positive for People of Color: negative for People of Color*	3.42	5%	13%	37%	23%	22%	314
positive for non-native English speakers: negative for non-native English speakers*	3.58	1%	9%	40%	29%	21%	311
welcoming: not welcoming*	4.10	3%	5%	10%	46%	37%	320
homogeneous: diverse	2.79	14%	31%	25%	21%	9%	320
disrespectful: respectful	3.97	3%	7%	15%	43%	33%	320

Guarini 2021 Survey Results (PhD only)

Q6. Rate the extent to which you agree or disagree with the following statements.									
Scale: 1 = Strongly disagree, ... 5 = Strongly agree									
	Overall Average	Strongly disagree	Generally disagree	Neither agree nor disagree	Generally agree	Strongly agree	N	N NA or don't know	N Total
My peers value my research/scholarship	4.07	0%	5%	14%	49%	32%	313	4	317
I have to work harder than some of my peers to be perceived as a legitimate scholar	3.00	12%	26%	27%	20%	15%	303	14	317
My own relationships and interactions with faculty are positive	4.27	2%	4%	4%	45%	45%	318	0	318
I have the resources I need to succeed	3.89	3%	8%	11%	53%	25%	316	2	318
My program is responsive to student concerns	3.44	7%	15%	19%	45%	14%	310	6	316
Financial support for students in my program is distributed fairly	3.77	5%	6%	23%	39%	27%	269	49	318
My program's procedures are fair and equitable to all	3.70	5%	10%	16%	50%	20%	303	14	317
I am comfortable voicing my feelings and opinions in front of others in my program	3.57	7%	17%	13%	40%	24%	317	2	319

Obstacles to Academic Success

Q7. Rate the extent to which the following have been obstacles to your academic progress in the last year.							
1 = Not an obstacle, 2 = A minor obstacle, 3 = A major obstacle							
	Overall Average	Not an obstacle	A minor obstacle	A major obstacle	N	N Not applicable	N Total
Program structure or requirements	1.48	61%	31%	9%	308	2	310
Academic or social isolation	2.17	23%	37%	40%	302	6	308
Your self-confidence	2.03	27%	43%	30%	304	5	309
Time management difficulties	1.91	33%	44%	24%	307	3	310
Current job market	1.73	48%	31%	21%	219	91	310
Finding housing	1.79	48%	24%	27%	273	37	310
Transportation to Dartmouth	1.54	59%	27%	13%	282	28	310
Other major obstacle (please describe)	2.59	21%	0%	79%	29	43	72
Availability of faculty	1.42	64%	29%	6%	301	8	309
Relationship with advisor	1.37	72%	20%	9%	300	11	311
Competition among your peers	1.29	74%	23%	3%	296	14	310
Cost of housing	2.12	27%	34%	39%	295	16	311
Family obligations	1.58	54%	35%	12%	284	26	310
Insufficient financial support from Dartmouth	1.64	52%	33%	16%	282	27	309
Immigration laws and regulations	1.69	54%	23%	23%	186	124	310
Physical and/or mental health issues	2.02	31%	36%	33%	298	12	310

Mentoring and Advising

Q8a. During the last year, did you receive helpful advice or assistance on the following? If so, from whom - faculty, Graduate Studies staff, students, or others?				
	Faculty	Staff	Students/ Others	N/A- Didn't seek advice
Navigating the systems and culture of graduate education	27%	13%	53%	40%
Selecting courses	40%	7%	46%	41%
Preparing for qualifying exams	37%	6%	37%	55%
Developing/improving your teaching	27%	18%	25%	55%

Guarini 2021 Survey Results (PhD only)

Q8a. During the last year, did you receive helpful advice or assistance on the following? If so, from whom - faculty, Graduate Studies staff, students, or others?				
	Faculty	Staff	Students/ Others	N/A- Didn't seek advice
Developing your dissertation topic	57%	5%	26%	40%
Conducting your dissertation research	60%	13%	42%	36%
Writing and revising your dissertation	29%	5%	16%	67%
Consideration of academic career options	37%	9%	35%	49%
Consideration of non-academic or other professional career options	27%	10%	40%	49%

Q8b. During the last year, did you receive helpful advice or assistance on the following? If so, from whom - faculty, Graduate Studies staff, students, or others? (Excluding N/A)			
	Faculty	Staff	Students/ Others
Navigating the systems and culture of graduate education	44%	22%	87%
Selecting courses	68%	12%	76%
Preparing for qualifying exams	83%	13%	82%
Developing/improving your teaching	59%	39%	54%
Developing your dissertation topic	95%	9%	43%
Conducting your dissertation research	92%	20%	66%
Writing and revising your dissertation	87%	16%	50%
Consideration of academic career options	72%	18%	69%
Consideration of non-academic or other professional career options	54%	20%	78%

Q9. How many faculty members at Dartmouth do you consider to be your advisors or mentors (i.e., faculty who give you advice about your education, career development, or other matters of concern to you as a graduate student)?		
	N	Percent
0	9	3%
1	109	36%
2	102	34%
3	62	20%
4 or more	22	7%
	304	100%

Guarini 2021 Survey Results (PhD only)

Q10. How often do you typically have substantive contact with your primary advisor about your academic progress and research?		
	N	Percent
Less often than yearly	2	1%
Once a year	3	1%
Once a term	3	1%
2-3 times a term	12	4%
Monthly	14	5%
Twice a month	47	15%
Weekly or more often	226	74%
	307	100%

Q11. Is this frequency about right, not enough contact, or too much contact?		
	N	Percent
There is too much contact; I do not have enough independence	6	2%
Just about the right amount of contact	241	79%
There is not enough contact; I do not receive all the guidance I need	36	12%
I am not sure	23	8%
	306	100%

Q12. For each of the following statements, indicate the extent to which it describes your dissertation advisor.							
1 = Strongly disagree, ... 5 = Strongly agree							
	Overall Average	Strongly disagree	Generally disagree	Neither agree nor disagree	Generally agree	Strongly agree	N
Discusses my research with me on a regular basis	4.33	3%	5%	6%	30%	56%	301
Encourage my interests outside of being a graduate student	3.59	8%	10%	25%	30%	27%	302
Respects other professionals, regardless of race, gender, religion, etc.	4.44	1%	3%	9%	24%	63%	301
Helps me find funding for my graduate work if applicable	4.02	3%	1%	29%	25%	42%	297
Gives me constructive feedback on my work	4.16	4%	4%	9%	39%	44%	300

Guarini 2021 Survey Results (PhD only)

Q12. For each of the following statements, indicate the extent to which it describes your dissertation advisor.							
1 = Strongly disagree, ... 5 = Strongly agree							
	Overall Average	Strongly disagree	Generally disagree	Neither agree nor disagree	Generally agree	Strongly agree	N
Clearly states expectations for my academic progress	3.65	7%	9%	21%	38%	25%	302
Has reasonable expectations for my academic progress	4.12	4%	3%	10%	42%	41%	301
Promotes my professional development	4.03	3%	6%	15%	37%	39%	300
Shares considerable experience and/or training	4.11	4%	5%	12%	34%	45%	300
Expects me to work so many hours that it is hard to have a personal life	2.06	44%	27%	17%	7%	6%	301
Has made me feel valued	4.01	5%	5%	15%	34%	41%	301
Sees me as a source of labor to advance career	2.25	38%	26%	19%	10%	8%	302

Q13. Have you received assistance or support on each of the following? If so, how helpful was the assistance or support? (Based on those who have received assistance/support)								
1 = Not at all helpful, ... 4 = Very helpful								
	Overall Average	Not at all helpful	Not very helpful	Somewhat helpful	Very helpful	N	N Have not received assistance or support	N Total
Standards for academic or professional writing in my field	3.23	4%	6%	53%	37%	205	89	294
Avoiding plagiarism and other violations of the standards of academic integrity	3.24	3%	6%	54%	37%	193	101	294
Understanding the professional and research ethics in my field	3.29	2%	7%	51%	40%	224	73	297
Writing grant or fellowship proposals	3.23	3%	12%	46%	39%	195	99	294
Preparing articles for publication	3.28	5%	7%	43%	45%	185	110	295
Effective oral communication and presentations	3.33	2%	6%	50%	43%	230	66	296
Academic career planning	2.94	5%	15%	60%	20%	158	138	296
Non-academic career planning	2.70	12%	27%	40%	21%	134	159	293

Program Quality

Q14. Please rate your program in the following areas.							
Scale: 1 = Poor, 2 = Fair, 3 = Good, 4 = Very good, 5 = Excellent							
	Overall Average	Poor	Fair	Good	Very Good	Excellent	N
Quality of graduate curriculum	3.17	9%	20%	28%	30%	13%	294
Quality of graduate-level teaching by faculty	3.40	8%	17%	23%	32%	20%	295
Quality of academic advising and guidance	3.55	7%	16%	20%	32%	26%	292
The opportunity to collaborate across disciplines	3.33	10%	20%	20%	28%	22%	294
Developing me as a scholar	3.59	4%	13%	28%	32%	24%	294
Developing me as a teacher	2.79	15%	30%	27%	16%	12%	292
Developing me as a communicator	3.44	5%	18%	27%	29%	22%	294

Q15. Rate the quality of courses offered to you.									
Scale: 1 = Poor, 2 = Fair, 3 = Average, 4 = Good, 5 = Excellent									
	Overall Average	Poor	Fair	Average	Good	Excellent	N	N Not applicable	N Total
Depth of content in courses within your area of specialty	3.43	14%	11%	17%	36%	23%	281	13	294
Breadth of content in courses within your area of specialty	3.33	15%	14%	18%	32%	22%	280	14	294
Depth of content in courses outside your area of specialty	3.66	6%	9%	19%	42%	23%	264	29	293
Breadth of content in courses outside your area of specialty	3.71	6%	9%	19%	41%	26%	269	25	294
State-of-the-art course content	3.44	8%	15%	21%	38%	19%	274	19	293

Q16. If you completed a qualifying exam this past year, what was your experience? Check the circle that best represents your agreement with the statements.									
Scale: 1 = Strongly disagree, ... 4 = Strongly agree									
	Overall Average	Strongly disagree	Disagree	Agree	Strongly agree	N	N Not applicable	N Total	
The conduct of exam was fair	3.59	2%	2%	31%	65%	99	177	276	

Q16. If you completed a qualifying exam this past year, what was your experience? Check the circle that best represents your agreement with the statements.								
Scale: 1 = Strongly disagree, ... 4 = Strongly agree								
	Overall Average	Strongly disagree	Disagree	Agree	Strongly agree	N	N Not applicable	N Total
The exam was useful in consolidating my knowledge	3.39	4%	5%	39%	52%	98	178	276
The exam topics were relevant to my training	3.47	2%	5%	36%	57%	99	177	276

Early Advice and Support Provided by Departments or Programs

Q17a. Does your department or program provide pre-candidacy students with the following opportunities or resources?				
	No, not available	Available but I did not participate/receive	I participated	N
A departmental/program orientation to help you understand the process of completing your graduate degree	17%	11%	72%	281
A written set of expectations about academic requirements and expected progress in your program	11%	4%	85%	281
Organized exposure to faculty and their current research interests	17%	7%	76%	283
Early research opportunities (e.g., laboratory rotations, research assistantships, faculty-advised research projects or papers)	19%	13%	67%	283
A written assessment of your academic progress, other than course grades and qualifying exams, at least annually	52%	6%	42%	282
A meeting with your Director of Graduate Studies and/or other faculty to assess your academic progress, at least annually	38%	17%	45%	282
Work with/mentor undergraduate students in the department	51%	49%	0%	143
Colloquia/seminars/workshops on inclusivity	53%	47%	0%	118
Colloquia/seminars/workshops on professional development	41%	59%	0%	124

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Q17b. If participated, how effective were the following opportunities or resources provided by your department or program to pre-candidacy students? If participated, how effective was it?							
Scale: 1 = Very ineffective, ... 5 = Very effective							
	Overall Average	Very ineffective	Somewhat ineffective	Neither effective nor ineffective	Somewhat effective	Very effective	N
A departmental/program orientation to help you understand the process of completing your graduate degree	3.60	9%	9%	17%	41%	24%	203
A written set of expectations about academic requirements and expected progress in your program	3.65	8%	13%	12%	44%	24%	240
Organized exposure to faculty and their current research interests	3.81	8%	7%	13%	42%	31%	215
Early research opportunities (e.g., laboratory rotations, research assistantships, faculty-advised research projects or papers)	4.28	3%	3%	8%	35%	51%	190
A written assessment of your academic progress, other than course grades and qualifying exams, at least annually	3.69	6%	9%	18%	45%	23%	119
A meeting with your Director of Graduate Studies and/or other faculty to assess your academic progress, at least annually	3.66	13%	5%	16%	37%	30%	128
Work with/mentor undergraduate students in the department	3.74	5%	9%	18%	42%	26%	154
Colloquia/seminars/workshops on inclusivity	3.47	7%	13%	22%	43%	15%	175
Colloquia/seminars/workshops on professional development	3.68	5%	7%	20%	49%	18%	170

Developing Your Teaching

Q18. Have you recently had one or more teaching assistantship appointments at Dartmouth?		
	N	Percent
No	107	37%

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Q18. Have you recently had one or more teaching assistantship appointments at Dartmouth?		
	N	Percent
Yes	181	63%
	288	100%

Q19. Rate the extent to which you agree or disagree with the following statements about this most recent teaching appointment. (Excluding those who did not have teaching assistantships)							
1 = Strongly disagree, ... 5 = Strongly agree							
	Overall Average	Strongly disagree	Generally disagree	Neither agree nor disagree	Generally agree	Strongly agree	N
I understood the goals of the course	4.36	1%	2%	9%	37%	52%	209
I understood what the faculty expected of me	4.37	1%	1%	9%	35%	53%	209
This teaching appointment was related to my program of study	4.02	3%	8%	14%	32%	43%	206
I received helpful feedback about my teaching from the course instructor	3.71	6%	11%	23%	26%	34%	207

Q20. How has this teaching appointment affected your interest in teaching in the future?		
	N	Percent
Decreased my interest	26	15%
Made no difference	91	52%
Increased my interest	57	33%
	174	100%

Career Development

Q21. While a graduate student at Dartmouth, have you done any of the following?			
	In the past year	Since starting this program	Neither
Attended a professional conference	29%	38%	51%
Presented a paper or poster at a conference	21%	30%	60%
Submitted articles, book chapters, or technical reports that are under review	30%	27%	59%

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Q21. While a graduate student at Dartmouth, have you done any of the following?			
	In the past year	Since starting this program	Neither
Published or had accepted for publication articles, book chapters, or technical reports	25%	28%	62%
Wrote or assisted in writing a grant proposal	21%	24%	65%

Q22. When you entered your program, in which of the following did you envision yourself working upon completion of your degree?		
	N	Percent
Academia	161	56%
Business, industry, self-employment	100	35%
Government, non-profit	14	5%
Other, please describe:	10	4%
	285	100%

Q23. In which of the following do you now envision yourself working?		
	N	Percent
Academia	116	40%
Business, industry, self-employment	128	44%
Government, non-profit	29	10%
Other, please describe:	16	6%
	289	100%

Q24. My program is preparing me adequately for my current career goals.						
1 = Strongly disagree, ... 5 = Strongly agree						
Overall Average	Strongly disagree	Generally disagree	Neither agree nor disagree	Generally agree	Strongly agree	N
3.73	5%	9%	16%	49%	21%	289

Revisiting Your Graduate Studies

Q25. How likely are you to stay in your program until you achieve your ultimate degree objective?						
1 = Very unlikely, ... 5 = Very likely						
Overall Average	Very unlikely	Somewhat unlikely	Not sure	Somewhat likely	Very likely	N
4.70	1%	1%	4%	11%	82%	284

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Q26. If you could start all over again...							
1 = Definitely not, 2 = Probably not, 3 = Maybe, 4 = Probably, 5 = Definitely							
	Overall Average	Definitely not	Probably not	Maybe	Probably	Definitely	N
Would you choose to pursue a PhD or Master's?	4.38	3%	3%	8%	24%	62%	286
Would you choose the same field of study?	4.31	2%	6%	9%	27%	56%	288
Would you choose to come to Dartmouth?	3.77	5%	13%	18%	29%	36%	287

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Q27. Would you recommend Dartmouth to someone considering your field of study?						
1 = Definitely not, 2 = Probably not, 3 = Maybe, 4 = Probably, 5 = Definitely						
Overall Average	Definitely not	Probably not	Maybe	Probably	Definitely	N
3.72	5%	10%	23%	32%	30%	286

Appendix 1

Respondent vs. Non-Respondent Comparison

Guarini 2021 Survey Results (PhD only)

Major

	Number of Survey Respondents	Number of Invitations	Response Rate
Biochemistry & Cell Biology (BCB)	27	43	63%
Cancer Biology (CANB)	9	14	64%
Chemistry (CHEM)	34	55	62%
Comparative Literature (COLT)	4	7	57%
Computer Science (COSC)	44	107	41%
Earth Sciences (EARS)	13	18	72%
Ecology & Evolutionary Biology (EEB)	8	21	38%
Ecology, Evolution, Ecosystems & Society (EEES)	23	29	79%
Engineering Sciences (ENGS)	54	140	39%
Health Care Delivery Science (HCDS)	7	62	11%
Health Pol & Clinical Practice (HPCP)*	2	2	100%
Master of Arts in Liberal Studies (MALS)	55	152	36%
Math (MATH)	11	28	39%
Microbiology (MICR)	33	69	48%
Molecular & Cellular Biology (MCB)	20	29	69%
Molecular and Systems Biology (MSB)	12	20	60%
Music (MUS)	4	6	67%
Physics (PHYS)	16	50	32%
Program in Molecular Medicine (PEMM)	22	26	85%
Psychological & Brain Sciences (PBS)	33	49	67%
Quantitative Biomedical Sciences (QBS)	34	70	49%
The Dartmouth Institute (TDI)*	2	4	50%
Total	467	1001	47%

*HPCP and TDI were excluded from the analysis (Number of Invitations <5). There were statistically significant differences between survey respondents and non-respondents due to major ($\chi^2 = 109.03$, $p < 0.0001$).

Race/Ethnicity/Citizenship

	Number of Survey Respondents	Number of Invitations	Response Rate
International	160	323	50%
Minority	76	176	43%
Unknown*	10	19	53%
White	221	485	46%
Total	467	1003	47%

*Excluding respondents with "Unknown" race, there were no statistically significant differences between survey respondents and non-respondents due to race/ethnicity ($\chi^2 = 2.14$, $p = 0.3423$).

Guarini 2021 Survey Results (PhD only)

Student type

	Number of Survey Respondents	Number of Invitations	Response Rate
Continuing	336	731	46%
New	131	272	48%
Total	467	1003	47%

There were no statistically significant differences between survey respondents and non-respondents due to student type ($\chi^2 = 0.38$, $p = 0.5351$).