# A Rising Tide Lifts All Boats: Assessing and Addressing Survey Nonresponse Results from Two National Surveys and Institutional Case Studies

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#### **About the Authors**

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#### **Abstract**

Survey nonresponse poses a significant challenge to the validity and reliability of research findings. In higher education, nonresponse warrants special attention because higher education institutions often make decisions based on empirical research. Nonresponse has been increasing in surveys of general populations, and survey researchers across various social science disciplines have observed a steady decline in survey participation over time. This trend has also impacted higher education research, as we can see in the reductions in response rates in national surveys, such as the Cooperative Institutional Research Program surveys and the

The AIR Professional File, Fall 2025 Article 180 National Survey of Student Engagement. We report data from two national surveys of directors of institutional research that we conducted, and we highlight demographic disparities in response rates. We demonstrate that improvement in response rates and representativeness reduces variations between sample and survey populations by gender and race. In the same way that "a rising tide lifts all boats," an improving survey response rate lifts the representativeness and thus the value of the results. We bolster our national survey findings with case studies of surveys of first-year and senior students at Connecticut College in New London, Connecticut. We find that disparities in gender and race are very low when the overall response rate reaches 50% or more of all students. We offer actionable solutions for researchers to enhance response rates and reduce nonresponse. Finally, in an institutional case study, we demonstrate how these actionable solutions significantly increased response rates and improved sample representativeness. Our key finding is that male and non-White participants have lower response rates overall, compared with female and White participants, but that, with concerted efforts within a college campus, male and non-White participants' response rates can be improved.

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#### 1. INTRODUCTION

Survey research is a cornerstone of data collection in higher education. However, nonresponse, defined here as the failure to obtain information from selected participants, can introduce bias, reduce statistical power, and compromise the generalizability of findings to the study population. Despite its pervasive nature, researchers often underestimate or inadequately address nonresponse issues. Response rate issues in surveys at higher education institutions, where the target population is concentrated and can easily be contacted through marketing and other efforts, are particularly intriguing.

Sample bias occurs because we gather a data sample from the population, and the makeup of the sample may differ from—and be underrepresentative or overrepresentative of—the population in key demographics. To address this possible sample bias, it is crucial to understand the nature of nonresponse and its variations. Two key questions emerge: Who aren't we regularly hearing from in our surveys? Who are we often hearing from in our surveys? Identifying and addressing any gaps and understanding overrepresentation are fundamental to improving data quality and ensuring representative findings.

To explore these issues, we surveyed directors of institutional research at national liberal arts colleges and national universities regarding their survey practices and response rates. Data from liberal arts colleges and universities were combined for the analysis in this research paper in order to improve subgroup sample sizes. This methodological choice enhances the statistical power and precision of response-rate comparisons among demographic groups, such as gender and race.

In today's increasingly data-driven world, higher education institutions rely heavily on survey research to guide decision-making. Data collected from surveys influence curricular offerings, policies, resource allocation, physical space, and program development. However, when survey nonresponse leads to incomplete datasets, institutional leaders risk making decisions based on inaccurate, nonrepresentative, or overrepresentative samples. Addressing survey nonresponse ensures that institutional decisions will be grounded in high-quality data, thereby improving student experiences, instructional delivery, and administrative efficiency.

Survey nonresponse is a growing concern, particularly in an era of declining participation rates. Studies indicate that response rates in telephone and online surveys have dropped over the years. As a result, the literature on survey methods is full of recommendations and best practices to improve survey response rates (Dillman, 2000; Heberlein & Baumgartner, 1978). It is almost always better to spend resources on increasing the response rate than to spend resources on surveying a large group.

#### 2. LITERATURE REVIEW

There are limited recent studies on survey response rates. Nonresponse has been increasing in surveys of the general population (De Leeuw & Heer, 2002; Smith, 1995; Steeh, 1981), and survey researchers across various social science disciplines, both in the United States and in other countries, have observed a steady decline in survey participation over time (Brick & Williams, 2013; National Research Council, 2013). This trend has also impacted higher education research. Dey (1997) highlighted a significant drop in response rates for the American Council on Education and the Cooperative Institutional Research Program (CIRP) senior follow-up surveys; those rates fell from 60% in the 1960s to just 21% in 1991.

#### 2.1. Patterns in Nonresponse

Moreover, research focusing on student populations has identified certain demographic patterns in survey response rates. For instance, female students typically participate at higher rates than male students (Crawford et al., 2001; Dey, 1997; Hutchinson et al., 1987; National Center for Education Statistics, 2002; National Survey of Student Engagement [NSSE], 2003; Sax et al., 2003). Additionally, White students are generally more likely to respond to surveys compared to non-White students (Dey, 1997; National Center for Education Statistics, 2002), leading to potential representation gaps in unweighted data. Dey also found that academic factors are related to survey participation—high school GPA and students' self-assessed academic abilities were among the strongest predictors of survey participation. In their 1987 study, Hutchinson et al. investigated response bias in mail surveys targeting first-year college students. They compared the attitudes and demographic characteristics of students who responded to the survey with those who did not. The study found notable differences between respondents and nonrespondents, which indicates the presence of response bias. Similar to Dey, Hutchinson et al. found that late respondents had lower GPAs than either early respondents or the overall student population, suggesting that academic performance may influence the timing and likelihood of survey participation. In addition, Hutchinson et al. suggest that students with higher GPAs and greater confidence in their academic skills are more likely to respond to surveys.

Porter and Whitcomb (2005) analyze the impact of demographics, engagement, and personality on student survey nonresponse, providing a comprehensive understanding of factors influencing participation. Using the CIRP first-year student survey

administered by the Higher Education Research Institute (HERI), Porter and Whitcomb found that female students and students with high GPAs are more likely to take part in surveys, consistent with Dey (1997) and Hutchinson et al. (1987), while students receiving financial aid are less likely to complete surveys. The addition of CIRP panel survey data provides several significant predictors of survey response to the model. For example, there is a positive relationship between social engagement and survey participation, with socially engaged students being more likely to take part in surveys than their less-engaged peers.

## 2.2. Response Rate and Sample Representativeness

Though variation exists in defining nonresponse bias, most view it as a function of the response rate and nonresponse effect; that effect is defined as how much respondents and nonrespondents differ on survey variables of interest (Keeter et al., 2000). In other words, low response rates may or may not lead to nonresponse bias, because answers to survey items might not differ substantially between respondents and nonrespondents. Similarly, Massey and Tourangeau (2013) argue that a high rate of nonresponse increases the potential for biased estimates, but does not necessarily bias an estimate.

Using NSSE data, Fosnacht et al. (2020) calculate the difference in means between the full and simulated samples of NSSE data using both the response rate and the respondent count. Then they correlate the standardized mean difference between the sample and the population mean of the metrics, such as the level of academic challenge and active and collaborative learning, computed in the NSSE questionnaire. Fosnacht et al. found that, even with response rates as low as 5% to 10%, survey

results still provide reliable estimates, particularly when sample sizes exceed 500 respondents. Thus, lower response rates do not necessarily introduce significant bias, provided that the sample is diverse and representative of the population. Their study challenges the traditional assumption that a higher response rate always ensures better data quality. Fosnacht et al. suggest that researchers should focus on survey design and representativeness rather than strictly aiming for higher response rates.

#### 2.3. Procedural Considerations

Research by Höfler et al. (2005) highlights the effectiveness of weighting techniques to adjust for nonresponse and dropout, providing a methodological approach to mitigating these issues. They argue that, by using these weights, researchers can better approximate the characteristics of the original sample, thereby enhancing the generalizability of the results. Furthermore, Little (1993) discusses the importance of post-stratification data weighting in correcting nonresponse, and emphasizes how model-based adjustments can enhance the representativeness of survey results. Using data from the CIRP follow-up survey, Dey (1997) applied a weighting procedure described by Astin and Molm (1972) to correct for nonresponse. The findings indicated that this weighting method was highly effective in reducing underrepresentativeness in univariate distributions, ensuring that the survey results more accurately reflected the target population. However, the advantage of using this weighting procedure was less clear when adjusting correlation and regression analyses.

Nair et al. (2008) explore declining survey response rates in higher education and argue that student engagement plays a critical role in improving participation. The authors examine how institutional strategies, survey design, and student perceptions

influence response rates. Nair et al. suggest that, by fostering stronger connections between institutions and students, response rates can improve, leading to data that are more representative of the overall student population. They also highlight the role of clear communication regarding the significance of survey participation and the implementation of targeted engagement strategies to encourage student involvement.

Porter et al. (2004a and 2004b) and Coates (2006) suggest that students are more likely to participate in evaluation surveys if they believe that their feedback makes a meaningful contribution. This means that students not only believe that their voice was crucial in providing valuable information, but also that they believe that the institution will act on their feedback.

## 3. RESEARCH QUESTION: DOES A RISING TIDE LIFT ALL BOATS?

We explore whether there are subgroup differences in response rates, and whether improving the response rates across the board leads disparities between sample and population proportions to converge or diverge. The literature review has shown that student engagement is a factor in survey response; this means that, if students are engaged, we will see a higher response rate in surveys. If, for example, engaged students are disproportionately represented by certain demographics (e.g., White or female students), then our efforts to improve overall survey response rates might backfire. However, we hypothesize that, as we improve overall response rates, the disparities between sample and population proportions in gender and race will converge and the sample will become more representative of its underlying population.

#### 4. METHODOLOGY

Before initiating this study, we conducted a limited literature review to find out what had already been done regarding response rates in higher education. We were primarily inspired by research conducted by Porter and Whitcomb in the early 2000s (Porter & Whitcomb, 2005). Armed with the information from our limited literature review, in January 2023 we conducted a series of personal interviews with several colleagues and experts in higher education and the private sector to evaluate the feasibility of our study. We asked these interviewees seven questions over the phone and followed up with one more question via email (Appendix 1). The input from these personal interviews was incorporated into the questionnaire. Once the questionnaire had been drafted, it was piloted with a sample from the same colleagues. Our sample of colleagues included Alexander C. Yin, Jeffrey E. Luoma, Michael Whitcomb, Patrick Glaser, Susan Canon, and Viola Simpson. We applied for and received Connecticut College's Institutional Review Board (IRB) approval for our liberal arts survey, and we applied for and received an IRB exemption from further review under the Code of Federal Regulations for the national universities survey. The Connecticut College IRB number assigned to this study is 2022.23.20.

Identical online surveys were administered to directors of institutional offices at liberal arts colleges (April 2023 through May 2023) and national universities (May 2024 through June 2024) via email. The survey asked about general survey practices and requested disaggregated response rates on a major survey they had administered in the preceding academic year. The survey questionnaire is available in Appendix 2.

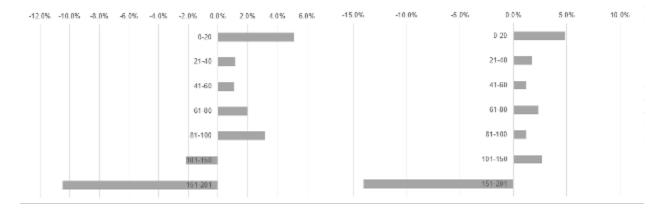
An invitation to take the survey and three reminders were sent to individuals on the liberal arts contact list. After the final reminder, a postcard embedded with a QR code for the survey was mailed to non-completers of the liberal arts survey. For the national universities survey, an invitation and five reminders were emailed. A \$15 Amazon gift card was offered to all completers in both surveys. We gratefully acknowledge the Connecticut College Center for the Critical Study of Race and Ethnicity for awarding us two grants to cover the cost of these survey incentives.

We used the 2023 edition of the U.S. News & World Report dataset and its classification to obtain the liberal arts contact list for the spring 2023 survey, and the 2024 edition of the same dataset to obtain the national universities contact list for the 2024 survey. The U.S. News & World Report rankings of institutional data were merged with internal databases to include the contact information of directors of institutional research offices. We manually searched online and updated missing or outdated contact information. The liberal arts contact list had a coverage of 92.0% and the national universities contact list had a coverage of 86.7%.

The surveys yielded 70 responses from 185 liberal arts colleges (38.9%) and 89 responses from 361 national universities (24.7%), for a total of 159 respondents. The surveys underrepresented liberal arts colleges and national universities that are ranked 151 or below in the U.S. News & World Report rankings, as seen in Figures 1 and 2.

Figure 1. Liberal Arts Gap Between Contact List and Finished Respondents (%)

Figure 2. National Universities Gap Between Contact List and Finished Respondents (%)



#### 5. SURVEY FINDINGS

Comparing the response rate from male student and female student differentials between population and sample (the mean male response rate difference between population and sample when paired with the mean female response rate difference between population and sample), as reported by our survey respondents, we found a statistically significant difference with a strong effect size (Cohen's d = 0.727) using a paired sample t-test.

Fewer men and more women are represented in the sample than in the population. (Figure 3 shows more men represented in the population than in the sample, and Figure 4 shows fewer women represented in the population than in the sample as a proportion.) In addition, both figures show response rate differentials converging around a 50% overall response rate, indicating that the disparities in gender and race shrink as response rates increase beyond 50%.

Figure 3. Differentials by Overall Response Rate: Male Respondents

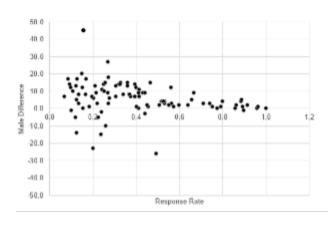


Figure 4. Differentials by Overall Response Rate: Female Respondents

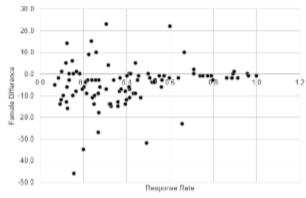


Figure 4a. Paired Samples T-Test

		Paired Differences						Signifi	cance	
		Mean	Std. Deviation	Std. Error Mean	the Diffe	rence Upper	t	df	One-Sided p	Two-Sided p
Pair 1	Male_Diff - Female_Diff	11.26316	15.49482	1.58974	8.10670	14.41961	7.085	94	0.000	-

Comparing White and Hispanic/Latino response rate differentials between population and sample (the mean White response rate difference between population and sample when paired with the mean Hispanic/Latino response rate difference between population and sample), as reported by the respondents, we found a statistically significant difference with a weak effect size (Cohen's d = -0.248) using a paired samples t-test. In other words, fewer Hispanic/Latino respondents and more White respondents are represented in the sample than

in the population. (Figure 5 shows more Hispanic/ Latino respondents represented in the population than in the sample, and Figure 6 shows fewer White respondents represented in the population than in the sample as a proportion.) In addition, both figures show response rate differentials converging around a 50% overall response rate, except for a few outliers, indicating that the disparities in Hispanic/ Latino and White respondents also shrink as response rates increase beyond 50%.

Figure 5. Hispanic/Latino Differentials by Overall Response Rate

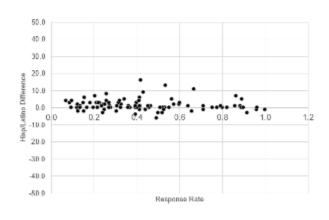


Figure 6. White Differentials by Overall Response Rate

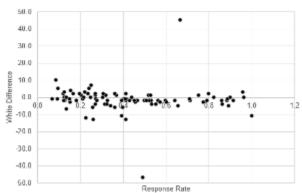


Figure 6a. Paired Samples T-Test

	Paired Differences								Significance	
		Std.		Std. Error	the Difference					
		Mean	Deviation	Mean	Lower	Upper	t	df	One-Sided p	Two-Sided p
Pair 1	White_Diff - Hisp_Latino_ Diff	-2.26571	9.22952	0.96752	-4.20786	-0.36357	-2.362	90	0.010	0.020

Comparing White and Black response rate differentials between population and sample, as reported by the respondents (the mean White response rate difference between population and sample when paired with the mean Black response rate difference between population and sample), we found a statistically significant difference with a weak effect size (Cohen's d = -0.210) using a paired sample t-test. In other words, fewer Black respondents and more White respondents are

represented in the sample than in the population. (Figure 7 shows more Black respondents represented in the population than in the sample, and Figure 6 shows fewer White respondents represented in the population than in the sample as a proportion.) In addition, Figures 7 and 6 show response rate differentials converging around a 50% overall response rate, except for a few outliers; this indicates that the disparities in Black and White respondents' response rates diminish thereafter.

Figure 7. Black Differentials by Overall Response Rate

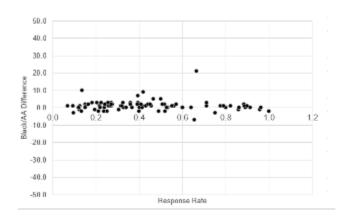


Figure 7a. Paired Samples T-Test

Paired Differences						Significance				
		Mean	Std. Deviation	Std. Error Mean	the Diffe	Upper	t	df	One-Sided p	Two-Sided p
Pair 1	White_Diff - Black_AA_D iff	-1.93407	9.20363	0.96480	-3.85081	-0.01732	-2.005	90	0.024	0.048

#### 6. CASE STUDIES CONDUCTED AT CONNECTICUT COLLEGE

The major finding of our research is that increasing survey response rates leads to greater representativeness of the respondent pool as compared to the population. This was not a foregone conclusion, since it is possible that institutional researchers' efforts to improve response rates could simply increase the response rates of one or a few student subgroups rather than increasing them across the board. For example, female students tend to respond to surveys at

higher rates than male students, and efforts to improve response rates could potentially simply run up this differential even higher. However, we find that this was not the case; as shown in Figures 8, 9, 10, and 11, we see that, as response rates climb, the gender gap in response rates drops between the sample and population.

Figures 8, 9, 10, and 11 pertain to Connecticut College case studies we conducted when we monitored survey response rates when administering the NSSE, our annual first-year and senior surveys in 2024, and our senior survey in 2025. (Note that these figures contain unweighted percentages.)

Figure 8. Male % Difference: Sample and Population

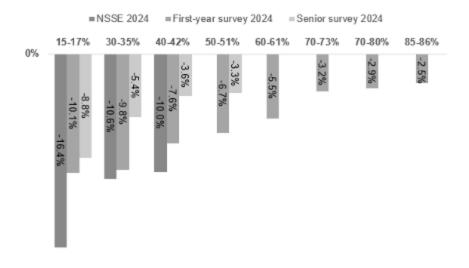


Figure 9. NSSE 2024 Male/Non-White % Difference: Sample and Population

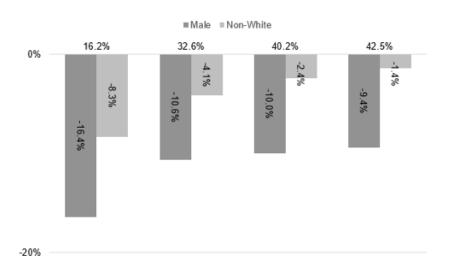
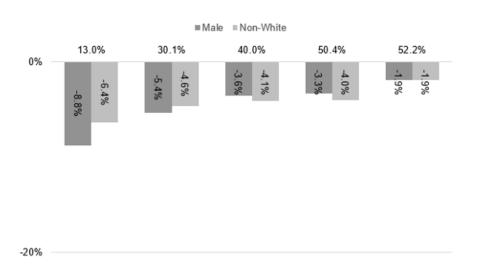


Figure 10. Senior Survey 2024 Male/Non-White % Difference: Sample and Population



Male | Non-White | 2.9% | 20.0% | 25.2% | 39.1% | 46.5% | 48.8% | 60.2% | -5.9% | -7.5% | -7.7% | -15.2% | -15.2% | -16.2% | -16.2% | -16.2% | -16.7% | -16.2% | -16.7% | -16.2% | -16.7% | -16.2% | -16.7% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.2% | -16.

Figure 11. Senior Survey 2025 Male/Non-White % Difference: Sample and Population

As we can observe in the four figures above, at higher response rates, especially when the rate surpasses 50%, the subgroup gap between sample and population declines to manageable levels, less than or closer to 5%, except for the male students. Thus, there may be no need for a researcher to have additional weighting procedures in place to correct this imbalance. How, then, can a researcher achieve a high response rate?

#### 7. ACTIONABLE SOLUTIONS FOR ADDRESSING NONRESPONSE

In our literature review, in-person interviews, the two in-house national surveys of directors of institutional research conducted in 2023 and 2024, and in our institutional case studies, we gathered insights about the actionable solutions that institutional research offices can deploy when conducting surveys on campus. A summary of these strategies follows.

#### 7.1. Survey Administration

- Administering major national surveys such as NSSE, CIRP, Noel-Levitz Student Satisfaction Inventory, and Consortium on Financing Higher Education (COFHE) and Higher Education Data Sharing (HEDS) consortium surveys on a rotating basis
- Managing survey scheduling through coordination with other offices on campus to avoid overlap
- Reducing the number of internal surveys overall
- Targeting outreach to student organizations, residential assistants, and athletics staff to get their help with recruiting respondents
- Monitoring response rates and using adaptive strategies during the survey administration period

#### 7.2. Survey Design Improvements

- Making surveys shorter and reducing completion time
- Sending out survey prenotifications

- Communicating survey best practices to oncampus researchers
- Consolidating similar internal surveys
- Addressing participants by their names in email invitations and reminders
- Asking people in respected/high-profile roles on campus—college leaders, faculty, student support office staff, advisors, coaches, etc. to announce the survey and encourage its completion

#### 7.3. Approval Process

- Implementing survey preapproval processes, such as IRB approval to prioritize in-house surveys
- Limiting survey software access based on institutional needs and priorities to avoid survey proliferation

#### 7.4. Survey Distribution Methods

- Administering surveys in person, such as during orientation or at tables set up in the student center
- Posting survey links in student learning management systems such as Moodle to increase visibility
- Posting on the institution's social media feeds, advertising in student newspaper, putting announcements on campus TV screens or information kiosks, and posting flyers and table tents with QR codes for accessing the survey in conspicuous campus areas such as dining halls
- Considering the use of text messaging to students with survey reminders or shorter text surveys with fewer questions

- Implementing sampling techniques to ensure representative survey responses and to mitigate survey fatigue
- Using oversampling methods to capture underrepresented populations or targeted outreach to specific student groups
- Conducting pilot studies to assess the effectiveness of the survey or of each question before full deployment
- Explaining how the data will be used; pointing to concrete changes that have happened as a result of past survey responses; citing survey results in reports; writing articles about survey results for the student newspaper

## 7.5. Practical Application of These Strategies

Connecticut College's annual senior survey was administered with a mix of online and in-person approaches until 2018. No special efforts were undertaken between 2019 and 2022. Some of the actionable solutions mentioned above were adopted in 2023, and we saw a 23.7% gain in response rate. That rate dropped by 7.9 percentage points in 2024, yet still passed the 50% threshold. In 2025 the response rate bounced back to 60.2%.

Population Completions 500 100% 93.5% BZ\_0% 450 90% 80% 400 74.3% 70% 300 60% 46.2% 46.0% 250 50% 41.3% 200 40% 150 30% Actionable On-line and in-person No special effort solutions 50 10% 0 2014 2015 2016 2017 2018 2019 Class

Figure 12. Senior Survey Response Rate, 2014 through 2025

## 7.6. Comparison of 2022 and 2025 Senior Survey Respondents by Gender and Race

The improvement of our overall response rate by 23.8 percentage points resulted in a 3.4 percentage-point gain in response rates for male respondents and a 3.3 percentage-point gain in response rates for non-White respondents. Although the gain among male students seems low compared with the gain in the overall response rate, enticing male students to participate in surveys is a challenge.

In our surveys of institutional research directors, when we asked respondents to name one student subgroup they think is hard to reach, out of 109 respondents, 34 (31.2%) named male students. A more targeted approach, such as outreach to athletics or concentrated marketing efforts to male students, may be recommended to improve male students' participation in surveys.

Figure 13. Senior Survey 2022, Senior Survey 2025

	Senior Survey 2022	Senior Survey 2025
Overall Response Rate	36.4%	60.2
Male	-10.9%	-7.5%
Non-White	-7.4%	-4.1%

Three of the actionable solutions—incentives, sampling, and data weighting—require greater attention and are described in detail below, along with survey findings. These are high-impact practices in survey research. Incentives generate a cost for the

institutional research office, even though they are effective in improving the response rate. Sampling and data weighting require preparation and technical expertise in the institutional research office and political will at the institution to adopt them.

#### 8. INCENTIVES

Survey researchers widely use incentives to encourage survey participation. In higher education, the type and value of the incentives differ from institution to institution. Some institutions have used creative incentives to improve survey participation. In our literature review, in-person interviews, and national surveys, we gathered insights about the use of incentives when conducting surveys on campus. Notable suggestions from respondents included the following:

- Offer well-chosen incentives (one big prize, small prizes to every completer, nonmonetary prizes, a prize each week, early respondent prizes, etc.).
- Offer cash or gift card incentives, which tend to be more effective than nonmonetary incentives.
- Offer prepaid incentives, which may yield higher response rates than post-survey ones.

Our survey of institutional research directors included an open-ended question asking

respondents whether they had offered an incentive for the survey they reported on, and, if so, the specific type of incentive. However, because this question was open ended, we were unable to systematically assess preferences between offering smaller incentives to a larger pool of respondents versus larger incentives to a smaller group, or any other specific preference that might be better than the other.

Close to a majority of survey participants (49.7%) have offered an incentive. Among those who offered an incentive, two-thirds (67.1%) reported offering monetary gift cards. This question was followed by another item assessing respondents' opinions about the impact of their incentives. Porter and Whitcomb (2003) found that 81.3% of researchers who used incentives perceived at least somewhat increased response rates. Consistent with these findings, we found that a large portion (70.9%) of the respondents who offered an incentive believe that incentives have a moderately or slightly positive impact on the response rate of their surveys.

Figure 14. What Impact Do You Think This Incentive May Have Had on Your Overall Response Rate?

	N	%
Moderately or slightly positive	56	70.9
Neither positive nor negative	15	19.0%
Extremely positive	8	10.1%
Total	79	100.0%

#### 9. SAMPLING

The objective of surveys is to make inferences about a population from the information contained in the sample that has been selected from that population. The inferences take the form of population mean or population proportion (Scheaffer et al., 2006). Sampling is a crucial aspect of survey methodology, and influences the representativeness and accuracy of findings. While it is common, particularly at smaller institutions, to send survey invitations to the entire student body, this may not be necessary or desirable. Proper sampling techniques to yield an invitation list of, say, half the student population can mitigate nonresponse and improve data quality. Strategies such as stratified sampling help ensure that diverse populations are adequately represented in survey results, reducing variability between the survey sample and the underlying population, and thereby effectively reducing sampling error (Bock et al., 2018). Sampling on college campuses can also reduce survey fatigue, meaning that, if researchers contact samples of students rather than the entire population, the probability of repeatedly reaching any individual student declines. Sampling helps optimize the use of incentives by increasing the probability of success of getting an incentive in a random drawing. Since researchers have more leverage to follow up with a sample of students than with the entire student population, it might encourage harder-to-reach students to participate in the survey. If a researcher communicates effectively that a student has been "selected" to be included in the sample, it might produce an extra motivation for the student to participate in the survey.

In their 2004 studies, Porter et al. (2004a, 2004b) explored the phenomenon of survey fatigue among college students, focusing on how administering multiple surveys within a single academic year

affects response rates. The researchers conducted two experiments at a selective liberal arts college to assess the impact of multiple survey requests on student participation and found that administering multiple surveys within a single academic year significantly reduces response rates due to survey fatigue. They observed that closely timed surveys and those perceived as less relevant had the most substantial drop in participation. However, a small group of students consistently responded, suggesting that some individuals are less affected by fatigue.

As researchers in higher education experience this phenomenon today, they may want to consider sampling smaller groups of students when administering surveys. For example, if the aim is to collect 100 responses for a reliable estimate and your population is 2,000, we propose sampling 300 students, assuming a 35% response rate. The remaining 1,700 unsampled students could be used for other research projects, thus reducing survey fatigue and potentially increasing response rates for all surveys being administered on campus.

#### 9.1. Survey Findings About Sampling

Although there seems to be great potential for the use of sampling in higher education, our two national surveys found that 47.8% of respondents rarely or never used sampling at their institutions. As we have observed in our practice, there can be political considerations of using samples in college campus surveys, depending on the objective of the study.

#### 9.2. Political Considerations in Sampling

Despite being a well-established statistical technique, sampling remains underused and is

often viewed with skepticism in higher education. Higher education's strong commitment to equity and inclusion presents a unique challenge when justifying the exclusion of individuals from data collection, even when probability-based sampling methods ensure that every member of the population has a fair and known chance of selection. Given the politically engaged nature of higher education institutions, the concerns about fairness, representation, and potential biases in sampling methodologies have led many colleges and universities to favor full-population surveys over scientifically rigorous sampling strategies.

One major factor contributing to this skepticism is the perception that political influences may shape how samples are drawn, which groups are surveyed, and which perspectives are either emphasized or underrepresented. In an environment where diversity, equity, and inclusion are central values, stakeholders—ranging from students and faculty to administrators—often question whether sampling techniques can truly provide an accurate and fair representation of the entire population. This concern has resulted in a preference for comprehensive surveys that include all members of the student body, faculty, or staff, ensuring that no voices are inadvertently excluded. However, as noted above, this approach comes with drawbacks, including survey fatigue, reduced response rates, and inefficient use of resources.

To address these concerns, institutions must prioritize transparency, fairness, and methodological rigor in their sampling strategies. Clearly communicating how samples are selected, ensuring randomness in participant selection, and using stratified sampling techniques to reflect the diversity of the population can enhance credibility and trust in the results. Moreover, establishing independent

oversight committees to review sampling methodologies can further mitigate concerns about bias.

In fact, when researchers send out a survey to students, the data they gather is *always* from a sample of the student body, and typically is influenced by self-selection rather than by inclusion in a scientific sample, as discussed above. By embracing well-designed sampling methods, higher education institutions can strike a balance between efficiency and inclusivity. When properly implemented, sampling not only preserves statistical integrity, but also upholds the core values of fairness and representation in decision-making processes.

## 10. POST-STRATIFICATION DATA WEIGHTING

When survey results appear not to be fully representative of the population, researchers can use weighting techniques to bring the results into closer alignment with what they would have been with a more robust response rate. Post-stratification data weighting is a vital statistical technique that enhances the accuracy and representativeness of survey results by adjusting for demographic imbalances that result from nonresponse. By applying weighting adjustments, researchers ensure that underrepresented groups are properly accounted for, thereby improving the reliability and validity of survey findings.

Data weighting is a widely used and essential statistical technique in election polling. The University of Connecticut's former polling center, the Center for Survey Research and Analysis (CSRA), weighted its polling data by gender, age, level of education, and race. As a policy, CSRA refrained from

weighting data by party affiliation (CSRA, 2006). Even though data weighting can be a complex process, in the absence of data weighting, pollsters might not be able to predict election outcomes within the margin of error (Enten, 2024).

## **10.1. Survey Findings About Data Weighting**

Despite its potential benefits, data weighting remains underused in higher education, with 59.7% of respondents reporting in our survey that they rarely or never apply weighting to their survey data.

## **10.2. Political Considerations in Data Weighting**

Similar to when applying survey sampling techniques, data weighting may carry a stigma in a higher education institution, posing an appearance of data manipulation if information about the weighting procedure is somewhat lacking, or if it is overly complex.

There is nothing unethical about weighting data as long as such weighting is done objectively and for good reasons, and it is fully disclosed in the methodology section of reports and presentations. The weighted results change the number of survey respondents because their objective is to reduce imbalance in the final sample and improve the overall quality of the results. Above all, weighting is not a technique for repairing any deficiencies in the sample. If it is used wisely, weighting can improve the accuracy of sample estimates (Dorofeev & Grant, 2006). The researcher must first strive to get a representative sample with a reasonably good response rate, then apply weights to adjust minor imbalances in the sample. Transparency and consistency in the application of weighting

techniques, along with clear explanations in results reporting, are essential for fostering trust and acceptance of weighted survey data.

One of the most widely used surveys in higher education is NSSE, administered by the Center for Postsecondary Research at the School of Education at Indiana University-Bloomington. The NSSE researchers provide a clear and concise explanation of their weighting methodology. The final Statistical Package for the Social Sciences (SPSS) dataset produced for institutions includes two weight variables: Weight 2, adjusted by institutional size for comparisons between institutions (to ensure proportional representation of institutions within selected peer groups), and Weight 1, adjusted by enrollment status (part time/full time) and gender. When an institution downloads its NSSE data, it must first apply Weight 1 to ensure accurate year-to-year comparisons of its own data (NSSE, n.d.).

## 11. LIMITATIONS OF THIS STUDY

The target population for our survey was directors of institutional research, a hard-to-reach yet naturally responsive group. As a result of the group's responsiveness, the survey achieved a reasonably strong response rate. Some of the survey's key questions were highly technical, requiring respondents to compile data on gender and race distributions within survey samples and corresponding target populations, as well as overall response rates from surveys conducted in the preceding academic year. Our study relies on these self-reported data.

To accommodate institutional differences, respondents were asked to reference data from

a national survey that they had conducted in the preceding academic year. These surveys include NSSE, CIRP, and Noel-Levitz Student Satisfaction Inventory surveys, as well as surveys from the COFHE and the HEDS consortium. However, our study does not account for variations among these surveys or their timing. Additionally, institutional research directors use different techniques to improve response rates, such as mandatory participation, in-person administration, and incentives. The data presented in this paper do not adjust for variations in survey administration methods across institutions.

Moreover, engagement patterns identified by previous studies may be unique to each institution and could influence response rates. For example, institutions with an engaged student body may naturally yield higher response rates and vice versa, a factor that is not accounted for in this study. Finally, the data do not incorporate institutional characteristics such as graduation or retention rates. These characteristics may further influence response rate patterns.

The response rate readings for our internal surveys (NSSE, first-year, and senior) were taken only in limited instances during the assessment of survey progress. More-frequent response rate readings would have provided consistent ranges to showcase the decline in subgroup response rates (x-axis).

The marketing materials in our internal surveys included a QR code, allowing respondents to participate anonymously. However, we requested an email address for the drawing of the incentive in an effort to validate the responses and guard against ballot stuffing. Though we were able to find out gender and race information for most of our QR respondents, some respondents remained anonymous.

#### 12. DISCUSSION

Research finds that socially engaged students are more likely to respond to surveys in higher education. It is also likely that the same group of engaged students is responding to most of the surveys distributed on a campus. In addition to taxing the time of the same set of socially engaged students, declining response rates in surveys present a significant challenge, requiring innovative strategies and a willingness to step beyond traditional methods to mitigate the impact. A combination of effort, creativity, collaboration, and strategic timing can enhance response rates. We found that, when response rates surpass 50%, the marginal differences in subgroup rates decline, and samples become more representative of their target population in gender and race.

The act of surveying itself can also serve as a valuable tool for student engagement. Researchers can involve students in piloting surveys, reviewing questionnaires, suggesting attractive incentives, or participating in focus groups, thus fostering a sense of inclusion and ownership. Additionally, engaging faculty, staff, and students in discussions about research findings and sharing insights through student newspapers or campus events can generate more interest and participation in future surveys.

To further encourage participation, researchers can offer innovative and meaningful incentives, such as a refund of the cap and gown purchase price for graduating seniors, course credits, parking passes, game tickets, a better position in a housing lottery, or early course registration, thus ensuring that students feel that their time has been appreciated and valued. And, by using technical strategies—such as sampling, monitoring response rates in real time, and adjusting outreach efforts accordingly—

researchers can improve participation and reduce survey fatigue.

Once all feasible methods to increase response rates have been exhausted, researchers can apply post-stratification weighting to make marginal adjustments, ensuring that the final sample accurately represents the broader student population based on key demographic characteristics. Through a thoughtful and multifaceted approach, researchers can enhance survey effectiveness while strengthening student engagement in the research process.

Critical components of our approach are highlighting underrepresented groups, developing strategies to improve their participation, and emphasizing the role of sampling and post-stratification data weighting based on key demographics such as gender and race. These techniques serve as solutions for addressing nonresponse and overrepresentation, reducing survey fatigue, and improving the overall efficiency of data collection in higher education. By ensuring that survey samples more accurately reflect the broader student population, institutions can derive more-reliable insights while minimizing the burden of excessive surveying.

Ultimately, our work aims to refine survey methodologies in higher education, and to ensure that data collection efforts are both equitable and methodologically sound. We provide a framework for institutions to enhance survey representation, improve response rates, and make data-driven decisions with greater confidence.

#### APPENDIX 1. IN-PERSON INTERVIEW QUESTIONNAIRE

- 1 In your experience, what type of student populations may have historical low response rates?
- 2 What type of community engagements such as posting flyers, outreach to athletes, faculty, student organizations etc., if any, have you undertaken to improve response rate in student surveys?
- 3| Have you observed an increase in response rate due to these efforts?
- 4 Do you typically give incentives to participate in a survey? If so, what kind of incentives?
- 5 | Have you used a sample of students rather than the population, performed data weighting, or used any other technique to reduce nonresponse?
- 6 There can be a number of surveys conducted at a college campus in a given year. In a typical year, how many student surveys do you conduct?
- 7| Have you done things like limit number of student surveys by having an approval process like IRB, cut down or consolidate surveys, or anything else to reduce survey fatigue?

#### Follow up via email.

The study we are about to commence is attempting to gauge and propose best practices to reduce nonresponse in undergraduate student surveys. If you were to conduct this study, what are the three questions you may be asking in your survey?

## APPENDIX 2. ASSESSING AND ADDRESSING SURVEY NONRESPONSE IN NATIONAL UNIVERSITIES

Start of Block: Block 1

IQ1 Dear \${m://FirstName},

The Office of Institutional Research and Planning at Connecticut College is conducting a national study on assessing and addressing nonresponse in undergraduate surveys. As a part of the study, we are contacting institutional research offices at national universities to participate in a brief survey.

The survey will ask for details about your administration of a national survey of undergraduates in the most recent academic year, 2022-2023. Please have those survey materials available before you begin our survey so you can answer all the questions about the nature of your respondents.

The survey will take about 10 minutes of your time. It has been approved by the Connecticut College Institutional Review Board. Your participation in the survey is voluntary, and your responses will be kept confidential. Any contact information collected will be removed from the data we analyze and report on. You must be 18 years or older to participate in this study.

Should you have any questions or concerns about this survey, please feel free to contact Dr. John Nugent (<u>idnug@conncoll.edu</u>), Sanjeewa Karunaratne (<u>skarunara@conncoll.edu</u>), or Dr. Jason Nier (<u>irb@conncoll.edu</u>).

Thank you.

End of Block: Block 1

#### Start of Block: Block 2



Q1 Below are some of the most common undergraduate surveys conducted at higher education institutions and administered by external organizations or internally by the institution. Please select the most recent survey conducted at your institution in the academic year 2022-2023 (between July 1, 2022, and June 30, 2023). If you administered more than one of these surveys, choose just one to provide details on the one for which you have the most complete information about respondents. ( <i>Please note: This is a required question</i> .
National Survey of Student Engagement (NSSE) (1)
HERI-CIRP Freshman Survey (TFS) (2)
Noel-Levitz Student Satisfaction Inventory (NSL) (3)
HEDS Student Satisfaction Survey (HEDS) (4)
Senior survey or graduating student survey (internal) (8)
First-year or freshman survey (internal) (15)
COFHE Senior Survey (Graduating Seniors) (16)
COFHE New Student Survey (New Fall Students) (17)
Other (please specify) (11)

End of Block: Block 2

Start of Block: Block 3
IQ2 The following questions are used to compute overall response rate in the \${Q1/ChoiceGroup/ SelectedChoicesTextEntry}.
*
Q2 How many survey responses were recorded at your institution in the \${Q1/ChoiceGroup/ SelectedChoicesTextEntry}? (Please enter a valid number.)
*
Q3 What was the size of the eligible undergraduate population who received the \${Q1/ChoiceGroup/ SelectedChoicesTextEntry}? (Please enter a valid number.)
End of Block: Block 3
Start of Block: Block 4
IQ3 The following questions ask about demographic information collected in the \${Q1/ChoiceGroup/ SelectedChoicesTextEntry}.
×
Q4 Was any of the following demographic information collected in the \${Q1/ChoiceGroup/ SelectedChoicesTextEntry}? (Please select all that apply.)
race/ethnicity (1)
gender (2)

If Was any of the following demographic information collected in the ... = gender

Q5 What was the \${Q4/ChoiceDescription/2} breakdown of the <u>survey respondent population</u> in \${Q1/ChoiceGroup/SelectedChoicesTextEntry}? (*Please move the slider to your selection.*)

Survey respondent population (%)
0 10 20 30 40 50 60 70 80 90 100

Male ()
Female ()
Other (non-binary) ()

#### Display This Question:

*If Was any of the following demographic information collected in the ... = gender* 

Q6 What was the \${Q4/ChoiceDescription/2} breakdown of the <u>eligible undergraduate population</u> in the \${Q1/ChoiceGroup/SelectedChoicesTextEntry}? (*Please move the slider to your selection.*)

Eligible student population (%)
0 10 20 30 40 50 60 70 80 90 100

Male ()
Female ()
Other (non-binary) ()

If Was any of the following demographic information collected in the ... = race/ethnicity

Q7 What was the \${Q4/ChoiceDescription/1} breakdown of the <u>survey respondent population</u> in \${Q1/ChoiceGroup/SelectedChoicesTextEntry}? (Please note: Race categories are based on IPEDS race/ethnicity definitions; move the slider to your selection.)

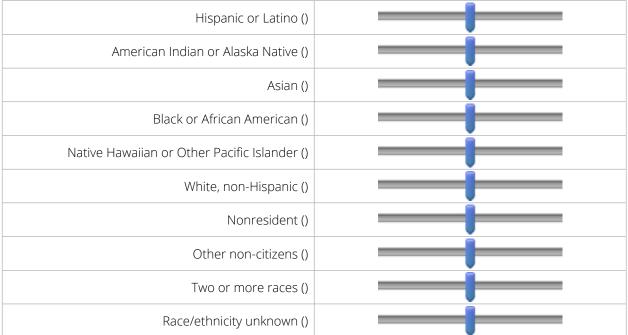
Survey respondent population (%)
0 10 20 30 40 50 60 70 80 90 100

Hispanic or Latino ()	
American Indian or Alaska Native ()	
Asian ()	
Black or African American ()	
Native Hawaiian or Other Pacific Islander ()	
White, non-Hispanic ()	
Nonresident ()	
Other non-citizens ()	
Two or more races ()	
Race/ethnicity unknown ()	

If Was any of the following demographic information collected in the ... = race/ethnicity

Q8 What was the \${Q4/ChoiceDescription/1} breakdown of the eligible undergraduate population in the \${Q1/ChoiceGroup/SelectedChoicesTextEntry}? (Please note: Race categories are based on IPEDS race/ethnicity definitions; move the slider to your selection.)

Eligible student population (%)
0 10 20 30 40 50 60 70 80 90 100



End of Block: Block 4

## Start of Block: Block 5 IQ4 The following set of questions are related to the administration of the \${Q1/ChoiceGroup/ SelectedChoicesTextEntry} in the academic year 2022-2023 (between July 1, 2022 and July 30, 2023). Q11 How many reminders, excluding the invitation, were sent during the administration of the \${Q1/ ChoiceGroup/SelectedChoicesTextEntry}? (The reminders include any reminder notification sent to students, either by the external organization or by the institution.) None (1) One (2) () Two (3) Three (4) Four (5) Five (6) Six or more (7) Q12 When administering the \${Q1/ChoiceGroup/SelectedChoicesTextEntry}, did you do any of the following? (Please select all that apply.) Posted flyers on campus (1)

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Posted digital messages on student learning management system (e.g., Moodle) (5)

Communicated with faculty to spread the word (2)

Posted digital messages on campus TV screens (4)

Posted digital notices on campus website (3)

Posted digital messages on student portal (e.g., Banner) (6)
Contacted student organizations or clubs (7)
Contacted departments or divisions (8)
Posted on your institution's social media (e.g., Twitter, Instagram, or Facebook) (9)
Sent pre-notification emails to students about the upcoming survey (10)
Communicated with athletic coaches to spread the word (11)
Contacted resident hall assistants or staff to spread the word (12)
Sent survey reminders via text messages (15)
Spread information about the survey by word-of-mouth (16)
Something else (please describe) (13)
End of Block: Block 5
Start of Block: Block 6
IQ5 Incentives are often offered to encourage students to participate in surveys. The following questions are related to the incentives offered in the \${Q1/ChoiceGroup/SelectedChoicesTextEntry} in the academic year 2022-2023 (between July 1, 2022 and June 30, 2023).
Q13 Was an incentive to participate offered in \${Q1/ChoiceGroup/SelectedChoicesTextEntry}?
Yes (1)
O No (2)

Display This Question:
If Was an incentive to participate offered in \${q://QID1/ChoiceGroup/SelectedChoicesTextEntry}? = Yes
Q14 If an incentive was offered in the \${Q1/ChoiceGroup/SelectedChoicesTextEntry}, what was the incentive?
Display This Question:  If Was an incentive to participate offered in \${q://QID1/ChoiceGroup/SelectedChoicesTextEntry}? = Yes
Q15 What impact do you think this incentive may have had on your \${Q1/ChoiceGroup/ SelectedChoicesTextEntry} overall response rate?  Extremely positive (1)  Moderately positive (2)  Slightly positive (3)  Neither positive nor negative (4)  Slightly negative (5)  Moderately negative (6)  Extremely negative (7)  End of Block: Block 6

#### Start of Block: Block 7



Start of Block: Block 8

IQ6 The following questions are related to <u>ALL</u> undergraduate surveys conducted by your office in the academic year 2022-2023 (between July 1, 2022 and June 30, 2023), including the surveys administered by external organizations such as NSSE, HEDS, HERI, or Noel-Levitz, and the internal surveys administered by your office.

Were sent to at least 10% of the undergraduate population?
None (1)
O 1-5 (7)
O 6-10 (8)
<u></u>
<u> </u>
21-30 (11)
More than 30 (12)
End of Block: Block 8

IQ7 The level of student engagement at an institution can have an impact on survey response rates. The following questions are related to overall student engagement at your institution.

Start of Block: Block 9

Q18 Based on your best estimate, how many on-camputo participate?	ıs clu	ıbs c	or org	ganiz	ation	s are	availa	able t	o the	e stud	dents
None (9)											
1-20 (6)											
21-40 (2)											
41-60 (3)											
61-80 (4)											
81-100 (5)											
More than 100 (7)											
Q19 Based on your best knowledge, how engaged are to on-campus organizations? (Please move the slider to your	seled N		.) : all	vith t		ırrou Engaş		; com	ı	ity th High ngag	У
	0	1	2	3	4	5	6	7	8	9	10
Community outreach ()											
Q20 How big a role do intercollegiate sports play at you	Sr	tituti mall 1				Big R		der to			ection.) g role 10
Intercollegiate sports ()			=							!	

Q21 How often does your institution organize events for students that address important social, economic, or political issues, for example, the war in Ukraine?
Always (5)
Frequently (6)
Sometimes (7)
Rarely (8)
Never (9)
Q22 Does your institution have a Greek system (social fraternities and sororities)?
○ Yes (1)
O No (4)
End of Block: Block 9
Start of Block: Block 10
IQ8 These questions are related to your general survey practices of conducting undergraduate student surveys at your institution over the years.
[x]

Q23 College campuses may try to reduce the survey "load" on their students. Have you done any of the following when administering or coordinating student surveys over the years? (Please select all that apply.)
Managed the scheduling of the surveys through survey coordination with other offices, or similar process (1)
Allowed only some offices or departments to send out surveys (2)
Had a survey pre-approval process such as a form or IRB approval process (3)
Managed access to survey software such as Survey Monkey or Qualtrics (4)
Combined or consolidated similar internal surveys (5)
Made surveys that are shorter in length (6)
Communicated survey best practices to on-campus researchers (9)
Made surveys that take less time to complete (10)
Cut down the number of internal surveys (11)
Administered external surveys such as NSSE, CIRP, NSL, or HEDS in rotational basis (e.g., every other year) (12)
Administered external surveys such as NSSE, CIRP, NSL, or HEDS in rotational basis (e.g., every other year) (12)  Something else (please describe) (8)
Something else (please describe) (8)
Osomething else (please describe) (8)  Display This Question:  If College campuses may try to reduce the survey "load" on their students. Have you done any of the = Administered external surveys such as NSSE, CIRP, NSL, or HEDS in rotational basis (e.g., every other year)
O Something else (please describe) (8)  Display This Question:  If College campuses may try to reduce the survey "load" on their students. Have you done any of the = Administered external surveys such as NSSE, CIRP, NSL, or HEDS in rotational basis (e.g., every other year)  Q24 How often do you administer \${Q1/ChoiceGroup/SelectedChoicesTextEntry}
Oisplay This Question:  If College campuses may try to reduce the survey "load" on their students. Have you done any of the = Administered external surveys such as NSSE, CIRP, NSL, or HEDS in rotational basis (e.g., every other year)  Q24 How often do you administer \${Q1/ChoiceGroup/SelectedChoicesTextEntry}  Annually (2)
Something else (please describe) (8) Display This Question: If College campuses may try to reduce the survey "load" on their students. Have you done any of the = Administered external surveys such as NSSE, CIRP, NSL, or HEDS in rotational basis (e.g., every other year) Q24 How often do you administer \${Q1/ChoiceGroup/SelectedChoicesTextEntry} Annually (2) Every other year (3)
Oisplay This Question:  If College campuses may try to reduce the survey "load" on their students. Have you done any of the = Administered external surveys such as NSSE, CIRP, NSL, or HEDS in rotational basis (e.g., every other year)  Q24 How often do you administer \${Q1/ChoiceGroup/SelectedChoicesTextEntry}  Annually (2)

Q27 In your practice over the years, how often have you had the chance to perform data weighting to make the survey respondent population look similar to your student population?
Always (1)
Frequently (2)
O Sometimes (4)
Rarely (6)
Never (7)
sk:
Q28 In administering surveys over the years, please name <u>one student subgroup or population</u> that you think is harder to reach or typically has lower response rates compared with other student populations.

Q29 What do you consider to be a high response rate on an undergraduate survey at your institution?
0-20% (1)
21-25% (2)
<u>26-30% (3)</u>
31-35% (4)
36-40% (5)
<u>41-45%</u> (6)
<u>46-50% (7)</u>
More than 50% (8)

Start of Block: Block 11

If What do you consider to be a high response rate on an undergraduate survey at your institution? = 0-20%

Or What do you consider to be a high response rate on an undergraduate survey at your institution? = 21-25%

Or What do you consider to be a high response rate on an undergraduate survey at your institution? = 26-30%

Or What do you consider to be a high response rate on an undergraduate survey at your institution? = 31-35%

Or What do you consider to be a high response rate on an undergraduate survey at your institution? = 36-40%

Or What do you consider to be a high response rate on an undergraduate survey at your institution? = 41-45%

Or What do you consider to be a high response rate on an undergraduate survey at your institution? = 46-50%

Or What do you consider to be a high response rate on an undergraduate survey at your institution? = More than 50%

undergraduate survey?
Extremely important (1)
Very important (2)
Important (3)
Not so important (4)
Not at all important (5)

If What do you consider to be a high response rate on an undergraduate survey at your institution? = 0-20%

Or What do you consider to be a high response rate on an undergraduate survey at your institution? = 21-25%

Or What do you consider to be a high response rate on an undergraduate survey at your institution? = 26-30%

Or What do you consider to be a high response rate on an undergraduate survey at your institution? = 31-35%

Or What do you consider to be a high response rate on an undergraduate survey at your institution? = 36-40%

Or What do you consider to be a high response rate on an undergraduate survey at your institution? = 41-45%

Or What do you consider to be a high response rate on an undergraduate survey at your institution? = 46-50%

Or What do you consider to be a high response rate on an undergraduate survey at your institution? = More than 50%

Q31 How often do you achieve the \${Q29/ChoiceGroup/SelectedChoices} response rate in an undergraduate survey?
Always (1)
Frequently (2)
Sometimes (3)
Rarely (4)
Never (5)
End of Block: Block 11
Start of Block: Block 12
*
Q32 Regarding undergraduate surveys you have been involved in administering over the years, please name one practice you have identified that has helped improve student response rates.
End of Block: Block 12



Q33 Please enter your college email address for confirmation. (Required question)

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