Survey Design: Basics and Best Practices

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Overview

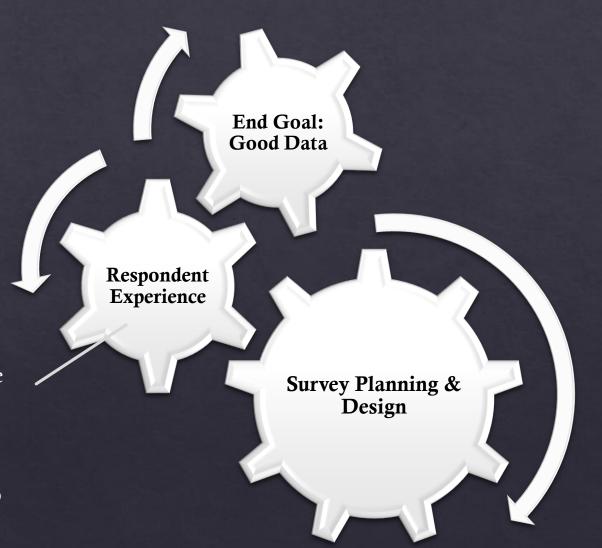
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Premise
Groundwork: Survey Planning
Writing Good Survey Questions
Strategies to Increase Response Rates
Wrap-up & Questions
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Premise

Surveys that people will complete

Humans tend to operate on a 'conservation principle' – we aim to expend as little cognitive energy as possible!

- → Questions should be easy to answer
- → Measures should be taken to mitigate survey fatigue



Premise

Survey fatigue occurs when respondents become overwhelmed with the questions or number of surveys that they are asked to take.

Survey fatigue not only reduces response rates, but it also compromises the quality of the data that respondents provide – they have become bored or tired of answering survey questions.



Premise

Quality data

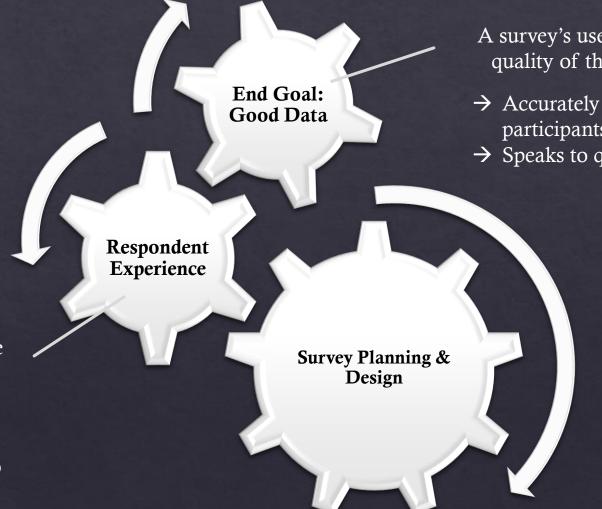
A survey's usefulness rests on the quality of the data it produces

- → Accurately reflects participants' experience
- → Speaks to questions of interest

Surveys that people will complete

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Groundwork: Survey Planning

- **The Solution of the Survey**
- **⋄** Identify the core questions to be answered





- **The clarity of these questions determines the usefulness of the data that will be gathered**
 - **⋄** Must be precisely defined
 - **♦** Answerable with survey data
- **Resist the urge to stray from the core purpose of the survey!**
- **♦ Identify the population of interest and the respondents that can provide the necessary information**
- ♦ Check to see if there are any validated surveys available that already address these questions if not, you'll need to create your own survey

Scope of survey questions:

Characteristics

- How old are you?
- What is your race/ethnicity?

Attitudes

- How satisfied are you with your social life at Lehigh?
- How comfortable are you with the campus climate?

Experiences

- Have you ever seriously considered transferring?
- Which of the following activities did you participate in during your senior year?

Good survey questions:

- **Are specific and precise**
- **⋄** Are clear and easy to understand
- **⋄** Require minimal effort to answer
- **Are closely connected to the purpose of the survey**

Types of questions to use frequently

- Likert-scale
- Categorical

1	Overall	how	satisfied	have	vou beel	n with	vour	undergra	duate	education	at	Lehigh?)
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Generally dissatisfied

Generally dissatisfied

Generally satisfied

College of Arts & Sciences

College of Business & Economics

P.C. Rossin College of Engineering and Applied Science

Intercollegiate Program

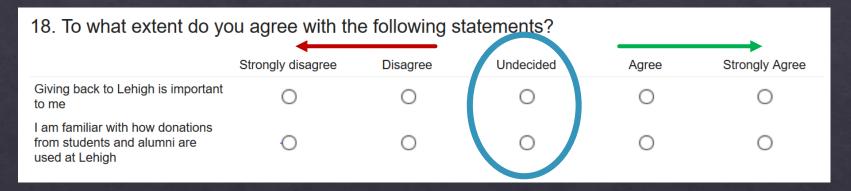
Types of questions to use sparingly

- Open-ended
- Multiple-response

22. If you could pass along one piece of advic	e to future Lehigh students, what would it be?
8. Which of the following describes the kind of eTHAT APPLY)	experiences you had at LEHIGH (SELECT ALL
☐ I explored my full potential	I found Lehigh intellectually challenging
☐ I pursued my personal goals	I was able to build my confidence
☐ I built my own future	I developed as a leader
☐ I thrived socially	I enhanced my existing strengths
☐ I thrived academically	I enhanced my career potential

Writing Good Questions: Likert-Scale

Consider using an odd number of response options with a neutral middle-ground



- **Be consistent with response options throughout the survey**
 - **At the least, use the same number of response options**
 - ♦ Going the same direction ideally negative-to-positive
- Consider including a "Not Applicable" if relevant (or "Prefer not to answer" for sensitive questions)

Writing Good Questions: Categorical

- ♦ Answer options should be exclusive and exhaustive
 - **The Example 2 Watch out for overlapping response options**



♦ Consider including an "other" option with text-entry

Writing Good Questions: Open-ended

- Open-ended questions should be used sparingly
 - **Are taxing to respondents**
 - **⋄** Require additional time investment to code
- **♦** However, they elicit rich data and can be very valuable
 - **⋄** It's best to include 1-2 open-ended questions at the end of the survey
 - ♦ They provide opportunities for respondents to express anything they want to share

7. Please share any additional thoughts on the campus climate:						

Writing Good Questions: What to Avoid

- **Double-barreled questions**
 - ♦ Watch out for "and" "but" "or"

Do you have a budget <u>and</u> did you stick to it over the last week?"

- **Split any compound questions into separate questions**
- **♦** Loaded questions

Where lo you like to party?

***** Leading questions

How easy was it for you to arrange a time to meet with your faculty mentor? Keep in mind that faculty often advice more than 45 students each.

♦ Acronyms, abbreviations, and jargon

- **⋄** Be as precise as possible
 - **⋄** Specify exactly what you're inquiring about
 - **⋄** Consider specifying a time frame

Poor questions

- Which of the following activities did you participate in?
- Who helped you the most during your college career?



Better questions

- Which of the following activities did you participate in <u>during your senior year?</u>
- Name the faculty or staff person at Lehigh who has helped you the most in your college career.

- Verify that the survey is mobile-friendly and questions can easily be completed from a cell phone
- **Ensure that there are no unnecessary questions**
 - **Only include questions directly related to the purpose of the survey**
 - **Onsider other means of gathering demographic information**
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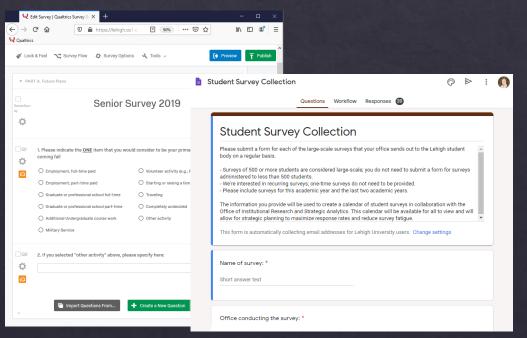




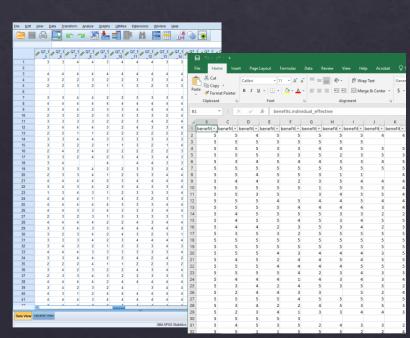


Have someone else take the survey to proof questions

- ♦ Bonus tip: do a pilot/test run collect a couple of responses then take a look at the data
 - **The Check for any issues with items or formatting that would cause problems with analyses**
 - ♦ Pay attention to question names/labels as building this in early-on is often helpful







- **Onsider** incorporating the survey into other activities
- Offer incentives
 - *** Appealing incentives:**
 - ♦ Token gift for <u>all</u> respondents
- espondents
 - **♦ Something respondents aren't able to get for themselves**
 - **Something very expensive**
 - **♦** Less appealing incentives:
 - **♦ Single item with low odds of winning**
 - ♦ Things most respondents already have







- ♦ Send invitation from a known, trusted source
- ♦ Provide a "why" (but keep it brief!)
 - **The Why participation is important**
 - ♦ How responses will be used
- **⋄** Offer assurances of privacy
 - **♦** Confidentiality encourages honest responses
 - **The Second Seco**
 - **⋄** See guidelines from Institutional Review Board (IRB) on confidentiality







- **⋄** Provide information about the survey timing
 - **⋄** Time to complete (hopefully short!)
 - **⋄** Deadline
- **⋄** Send reminders
 - **⋄** 1-2 reminders about 1 week apart
 - ♦ A final "last chance" reminder
 - ♦ Unique subject line
 - **Reiterate importance and deadline to complete survey**



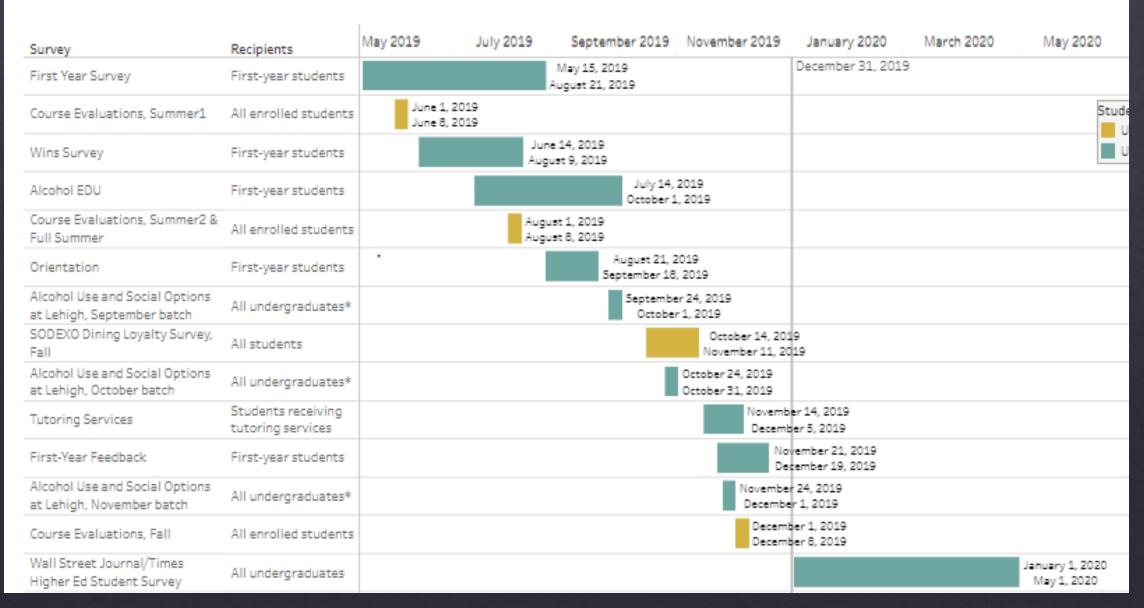




- **♦** Select launch dates strategically
 - ♦ Avoid:
 - ♦ Breaks/holidays
 - **♦ Exams**
 - **⋄** Weekends
 - ♦ The beginning/end of a semester
 - **⋄** Avoid overlaps with other surveys

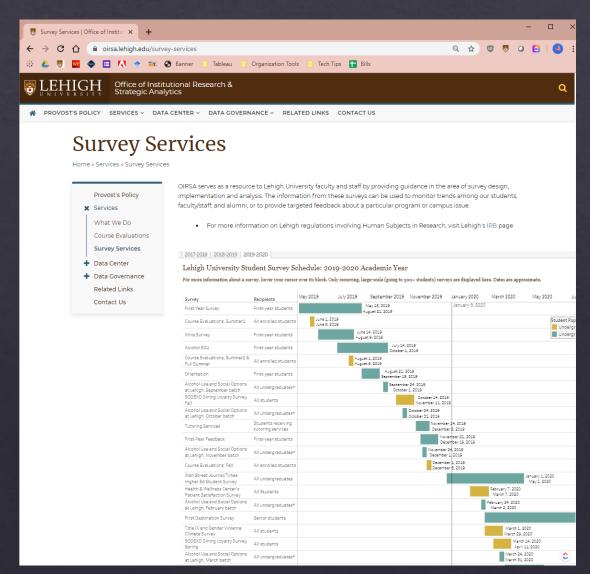
Lehigh University Student Survey Schedule: 2019-2020 Academic Year

For more information about a survey, hover your cursor over its block. Only recurring, large-scale (going to 500+ students) surveys are displayed here. Dates are approximate.



- **♦ Select launch dates strategically**
 - ♦ Also avoid:
 - ♦ Breaks/holidays
 - **♦** Exams
 - ♦ Weekends
 - ♦ The beginning/end of a semester
 - **Avoid overlaps with other surveys:**
- **⋄** Take organization-wide measures to reduce survey fatigue
- **Ensure survey is designed with the respondent's experience in mind**

OIRSA.Lehigh.edu/survey-services



Final Thoughts

- **Document** everything for future reference
 - **Recruitment procedures**
 - **♦ Instrument & scoring key**
 - **⋄** Response rate
- **The Second Seco**









Feel free to contact me with any questions!

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Sources:

Do's and Don'ts in Survey Design and Reporting, Association for Institutional Research webinar

Conducting a Quality Research Project, Association for Institutional Research webinar

Writing Survey Questions, Percontor workshop