Questionnaire Design

BUS 230: Business Research and Communication

< ロ > < 回 > < 回 > < 回 > < 回 >

BUS 230: Business Research and Communication Questionnaire Design

What should be asked? Phrasing Questions Question/Answer Sequencing Goals and Learning Objectives Basic Principles

Goals and Learning Objectives

- Goals of this chapter:
 - Identify survey questions / variables needed to answer a research question.
 - Understand benefits and problems with open ended and fixed-alternative questions.
 - Be able to phrase questions to limit respondent bias.
 - Be able to order questions to limit respondent bias.
- Learning objectives:
 - LO2: Recognize and use the appropriate techniques to collect or use survey data to address a research problem.
 - LO2.C: Identify sources of respondent and administrative error and develop the ability to construct and administer a survey instrument that minimizes these errors.

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

What should be asked? Phrasing Questions Question/Answer Sequencing Goals and Learning Objectives Basic Principles

Goals and Learning Objectives

- Goals of this chapter:
 - Identify survey questions / variables needed to answer a research question.
 - Understand benefits and problems with open ended and fixed-alternative questions.
 - Be able to phrase questions to limit respondent bias.
 - Be able to order questions to limit respondent bias.
- Learning objectives:
 - LO2: Recognize and use the appropriate techniques to collect or use survey data to address a research problem.
 - LO2.C: Identify sources of respondent and administrative error and develop the ability to construct and administer a survey instrument that minimizes these errors.

イロト イポト イヨト イヨト

What should be asked? Phrasing Questions Question/Answer Sequencing

Basic Principles

Goals and Learning Objectives Basic Principles

(ロ) (部) (E) (E)

2/17

- ② How should questions be phrased?
- I How should questions be sequenced?

What should be asked? Phrasing Questions Question/Answer Sequencing

Basic Principles

Goals and Learning Objectives Basic Principles

(ロ) (部) (E) (E)

- What should be asked?
- O How should questions be phrased?
- I How should questions be sequenced?

What should be asked? Phrasing Questions Question/Answer Sequencing

Basic Principles

Goals and Learning Objectives Basic Principles

(ロ) (部) (E) (E)

- What should be asked?
- O How should questions be phrased?
- O How should questions be sequenced?

Variables Open-ended Questions Fixed Alternative Questions

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

What should be asked?

• Get data on relevant outcome variables.

- Get data on background variables and other explanatory variables.
- Example: Living on campus and academic performance
 - Outcome variables: semester GPA, cumulative GPA, frequency using campus resources, extra curricular activities.
 - Relevant explanatory variables: high school GPA, parents' income, year in school.
- Be careful not to ask too many questions! This can decrease response rate.

Variables Open-ended Questions Fixed Alternative Questions

- Get data on relevant outcome variables.
- Get data on background variables and other explanatory variables.
- Example: Living on campus and academic performance
 - Outcome variables: semester GPA, cumulative GPA, frequency using campus resources, extra curricular activities.
 - Relevant explanatory variables: high school GPA, parents' income, year in school.
- Be careful not to ask too many questions! This can decrease response rate.

Variables Open-ended Questions Fixed Alternative Questions

- Get data on relevant outcome variables.
- Get data on background variables and other explanatory variables.
- Example: Living on campus and academic performance
 - Outcome variables: semester GPA, cumulative GPA, frequency using campus resources, extra curricular activities.
 - Relevant explanatory variables: high school GPA, parents' income, year in school.
- Be careful not to ask too many questions! This can decrease response rate.

Variables Open-ended Questions Fixed Alternative Questions

- Get data on relevant outcome variables.
- Get data on background variables and other explanatory variables.
- Example: Living on campus and academic performance
 - Outcome variables: semester GPA, cumulative GPA, frequency using campus resources, extra curricular activities.
 - Relevant explanatory variables: high school GPA, parents' income, year in school.
- Be careful not to ask too many questions! This can decrease response rate.

Variables Open-ended Questions Fixed Alternative Questions

- Get data on relevant outcome variables.
- Get data on background variables and other explanatory variables.
- Example: Living on campus and academic performance
 - Outcome variables: semester GPA, cumulative GPA, frequency using campus resources, extra curricular activities.
 - Relevant explanatory variables: high school GPA, parents' income, year in school.
- Be careful not to ask too many questions! This can decrease response rate.

Variables Open-ended Questions Fixed Alternative Questions

- Get data on relevant outcome variables.
- Get data on background variables and other explanatory variables.
- Example: Living on campus and academic performance
 - Outcome variables: semester GPA, cumulative GPA, frequency using campus resources, extra curricular activities.
 - Relevant explanatory variables: high school GPA, parents' income, year in school.
- Be careful not to ask too many questions! This can decrease response rate.

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イヨト イヨト

Open-ended Questions

• **Open-ended questions** can serve uses that fixed alternative questions cannot:

- How can service be improved?
- Viterbo might want to ask: What Viterbo community events are you aware of?
- Can get deeper answers, reasoning behind answers.
- Useful for exploratory research, though not exclusively.
- Responses can be grouped together into categories after data has been collected.
- Might be useful to even count number of responses to a particular question.

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イヨト イヨト

Open-ended Questions

- **Open-ended questions** can serve uses that fixed alternative questions cannot:
 - How can service be improved?
 - Viterbo might want to ask: What Viterbo community events are you aware of?
- Can get deeper answers, reasoning behind answers.
- Useful for exploratory research, though not exclusively.
- Responses can be grouped together into categories after data has been collected.
- Might be useful to even count number of responses to a particular question.

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イヨト イヨト

Open-ended Questions

- **Open-ended questions** can serve uses that fixed alternative questions cannot:
 - How can service be improved?
 - Viterbo might want to ask: What Viterbo community events are you aware of?
- Can get deeper answers, reasoning behind answers.
- Useful for exploratory research, though not exclusively.
- Responses can be grouped together into categories after data has been collected.
- Might be useful to even count number of responses to a particular question.

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イヨト イヨト

Open-ended Questions

- **Open-ended questions** can serve uses that fixed alternative questions cannot:
 - How can service be improved?
 - Viterbo might want to ask: What Viterbo community events are you aware of?
- Can get deeper answers, reasoning behind answers.
- Useful for exploratory research, though not exclusively.
- Responses can be grouped together into categories after data has been collected.
- Might be useful to even count number of responses to a particular question.

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イヨト イヨト

- 4/17
- **Open-ended questions** can serve uses that fixed alternative questions cannot:
 - How can service be improved?
 - Viterbo might want to ask: What Viterbo community events are you aware of?
- Can get deeper answers, reasoning behind answers.
- Useful for exploratory research, though not exclusively.
- Responses can be grouped together into categories after data has been collected.
- Might be useful to even count number of responses to a particular question.

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イヨト イヨト

- **Open-ended questions** can serve uses that fixed alternative questions cannot:
 - How can service be improved?
 - Viterbo might want to ask: What Viterbo community events are you aware of?
- Can get deeper answers, reasoning behind answers.
- Useful for exploratory research, though not exclusively.
- Responses can be grouped together into categories after data has been collected.
- Might be useful to even count number of responses to a particular question.

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イヨト イヨト

- **Open-ended questions** can serve uses that fixed alternative questions cannot:
 - How can service be improved?
 - Viterbo might want to ask: What Viterbo community events are you aware of?
- Can get deeper answers, reasoning behind answers.
- Useful for exploratory research, though not exclusively.
- Responses can be grouped together into categories after data has been collected.
- Might be useful to even count number of responses to a particular question.

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イラト イラト

Problems with Open-Ended Questions

5/17

• Greater chance for respondent biases.

- Average person effect: individual may not want to give a response he or she may expect is unusual.
- *Social desirability effect:* individual may give untrue responses to demonstrate he or she cares about an issue.
- Acquiescence bias: individual may give a response to placate the interviewer.
- Questions and/or expectations for answers may be unclear.
- Less anonymity: face-to-face, hand writing, or even choice of words or reasoning can expose respondents.

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イラト イラト

Problems with Open-Ended Questions

- Greater chance for respondent biases.
 - Average person effect: individual may not want to give a response he or she may expect is unusual.
 - *Social desirability effect:* individual may give untrue responses to demonstrate he or she cares about an issue.
 - Acquiescence bias: individual may give a response to placate the interviewer.
- Questions and/or expectations for answers may be unclear.
- Less anonymity: face-to-face, hand writing, or even choice of words or reasoning can expose respondents.

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イラト イラト

Problems with Open-Ended Questions

- Greater chance for respondent biases.
 - Average person effect: individual may not want to give a response he or she may expect is unusual.
 - *Social desirability effect:* individual may give untrue responses to demonstrate he or she cares about an issue.
 - Acquiescence bias: individual may give a response to placate the interviewer.
- Questions and/or expectations for answers may be unclear.
- Less anonymity: face-to-face, hand writing, or even choice of words or reasoning can expose respondents.

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イヨト イヨト

Problems with Open-Ended Questions

- Greater chance for respondent biases.
 - Average person effect: individual may not want to give a response he or she may expect is unusual.
 - *Social desirability effect:* individual may give untrue responses to demonstrate he or she cares about an issue.
 - Acquiescence bias: individual may give a response to placate the interviewer.
- Questions and/or expectations for answers may be unclear.
- Less anonymity: face-to-face, hand writing, or even choice of words or reasoning can expose respondents.

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イヨト イヨト

Problems with Open-Ended Questions

- Greater chance for respondent biases.
 - Average person effect: individual may not want to give a response he or she may expect is unusual.
 - *Social desirability effect:* individual may give untrue responses to demonstrate he or she cares about an issue.
 - Acquiescence bias: individual may give a response to placate the interviewer.
- Questions and/or expectations for answers may be unclear.
- Less anonymity: face-to-face, hand writing, or even choice of words or reasoning can expose respondents.

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イヨト イヨト

Problems with Open-Ended Questions

- Greater chance for respondent biases.
 - Average person effect: individual may not want to give a response he or she may expect is unusual.
 - *Social desirability effect:* individual may give untrue responses to demonstrate he or she cares about an issue.
 - Acquiescence bias: individual may give a response to placate the interviewer.
- Questions and/or expectations for answers may be unclear.
- Less anonymity: face-to-face, hand writing, or even choice of words or reasoning can expose respondents.

Variables Open-ended Questions Fixed Alternative Questions

- Fixed-alternative questions: questions where the interviewer provides only a limited number of answers to choose from.
- Simple dichotomous questions: respondent must pick one and only one of two possible alternatives.
 - Have you attended any UW-L varsity athletic sporting events in the last year? Yes □ No □
- Determinant-choice questions: respondent chooses one and only one choice from 3 or more options.
- What is your current academic status?
 - □ Freshman (undergraduate degree seeking / less than 30 credits accumulated) □ Sophomore (undergraduate degree seeking / 30 or more credits and less than 60 credits accumulated)
 - \square Junior (undergraduate degree seeking / 60 or more credits and less than 90 credits accumulated)
 - □ Senior (undergraduate degree seeking / 90 or more credits accumulated)
 - $\hfill\square$ Undergraduate Non-degree seeking.
 - □ Other

Variables Open-ended Questions Fixed Alternative Questions

- Fixed-alternative questions: questions where the interviewer provides only a limited number of answers to choose from.
- Simple dichotomous questions: respondent must pick one and only one of two possible alternatives.
 - Have you attended any UW-L varsity athletic sporting events in the last year? Yes □ No □
- Determinant-choice questions: respondent chooses one and only one choice from 3 or more options.
- What is your current academic status?
 - \Box Freshman (undergraduate degree seeking / less than 30 credits accumulated) \Box Sophomore (undergraduate degree seeking / 30 or more credits and less than 60 credits accumulated)
 - \square Junior (undergraduate degree seeking / 60 or more credits and less than 90 credits accumulated)
 - □ Senior (undergraduate degree seeking / 90 or more credits accumulated)
 - $\hfill\square$ Undergraduate Non-degree seeking.
 - □ Other

Variables Open-ended Questions Fixed Alternative Questions

- Fixed-alternative questions: questions where the interviewer provides only a limited number of answers to choose from.
- Simple dichotomous questions: respondent must pick one and only one of two possible alternatives.
 - Have you attended any UW-L varsity athletic sporting events in the last year? Yes □ No □
- Determinant-choice questions: respondent chooses one and only one choice from 3 or more options.
- What is your current academic status?
 - □ Freshman (undergraduate degree seeking / less than 30 credits accumulated)
 - \square Sophomore (undergraduate degree seeking / 30 or more credits and less than 60 credits accumulated)
 - \square Junior (undergraduate degree seeking / 60 or more credits and less than 90 credits accumulated)
 - □ Senior (undergraduate degree seeking / 90 or more credits accumulated)
 - □ Undergraduate Non-degree seeking.
 - □ Other

Variables Open-ended Questions Fixed Alternative Questions

Fixed Alternative Questions

- Fixed-alternative questions: questions where the interviewer provides only a limited number of answers to choose from.
- Simple dichotomous questions: respondent must pick one and only one of two possible alternatives.
 - Have you attended any UW-L varsity athletic sporting events in the last year? Yes □ No □
- Determinant-choice questions: respondent chooses one and only one choice from 3 or more options.

• What is your current academic status?

□ Freshman (undergraduate degree seeking / less than 30 credits accumulated)

 \square Sophomore (undergraduate degree seeking / 30 or more credits and less than 60 credits accumulated)

 \square Junior (undergraduate degree seeking / 60 or more credits and less than 90 credits accumulated)

□ Senior (undergraduate degree seeking / 90 or more credits accumulated)

- □ Undergraduate Non-degree seeking.
- Other

Variables Open-ended Questions Fixed Alternative Questions

- Fixed-alternative questions: questions where the interviewer provides only a limited number of answers to choose from.
- Simple dichotomous questions: respondent must pick one and only one of two possible alternatives.
 - Have you attended any UW-L varsity athletic sporting events in the last year? Yes □ No □
- Determinant-choice questions: respondent chooses one and only one choice from 3 or more options.
- What is your current academic status?
 - \square Freshman (undergraduate degree seeking / less than 30 credits accumulated)
 - \square Sophomore (undergraduate degree seeking / 30 or more credits and less than 60 credits accumulated)
 - \square Junior (undergraduate degree seeking / 60 or more credits and less than 90 credits accumulated)
 - □ Senior (undergraduate degree seeking / 90 or more credits accumulated)
 - $\hfill\square$ Undergraduate Non-degree seeking.
 - \Box Other

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イヨト イヨト

- Don't force invalid responses: make sure your choices are **totally exhaustive**.
- Make sure the correct choice is clear:
 - Make sure wording is sufficient and appropriate (notice definitions about college year)
 - Make sure choices are mutually exclusive.
- Impossible for respondents to explain, clarify, or qualify an answer:
 - Do you think women should be able to legally get an abortion? Yes / No.

Variables Open-ended Questions Fixed Alternative Questions

<ロ> (四) (四) (三) (三)

- Don't force invalid responses: make sure your choices are **totally exhaustive**.
- Make sure the correct choice is clear:
 - Make sure wording is sufficient and appropriate (notice definitions about college year)
 - Make sure choices are **mutually exclusive**.
- Impossible for respondents to explain, clarify, or qualify an answer:
 - Do you think women should be able to legally get an abortion? Yes / No.

Variables Open-ended Questions Fixed Alternative Questions

(ロ) (部) (E) (E)

- Don't force invalid responses: make sure your choices are **totally exhaustive**.
- Make sure the correct choice is clear:
 - Make sure wording is sufficient and appropriate (notice definitions about college year)
 - Make sure choices are **mutually exclusive**.
- Impossible for respondents to explain, clarify, or qualify an answer:
 - Do you think women should be able to legally get an abortion? Yes / No.

Variables Open-ended Questions Fixed Alternative Questions

(ロ) (部) (E) (E)

- Don't force invalid responses: make sure your choices are **totally exhaustive**.
- Make sure the correct choice is clear:
 - Make sure wording is sufficient and appropriate (notice definitions about college year)
 - Make sure choices are **mutually exclusive**.
- Impossible for respondents to explain, clarify, or qualify an answer:
 - Do you think women should be able to legally get an abortion? Yes / No.

イロト イポト イヨト イヨト

- Don't force invalid responses: make sure your choices are **totally exhaustive**.
- Make sure the correct choice is clear:
 - Make sure wording is sufficient and appropriate (notice definitions about college year)
 - Make sure choices are **mutually exclusive**.
- Impossible for respondents to explain, clarify, or qualify an answer:
 - Do you think women should be able to legally get an abortion? Yes / No.

イロト イポト イヨト イヨト

- Don't force invalid responses: make sure your choices are **totally exhaustive**.
- Make sure the correct choice is clear:
 - Make sure wording is sufficient and appropriate (notice definitions about college year)
 - Make sure choices are **mutually exclusive**.
- Impossible for respondents to explain, clarify, or qualify an answer:
 - Do you think women should be able to legally get an abortion? Yes / No.

Variables Open-ended Questions Fixed Alternative Questions

Frequency Determination Questions

- Frequency determination questions: Questions which ask for how often some occurrence generally happens.
- How often do you study for your classes, besides completing homework assignments?
 - $\hfill\square$ One ore more times every day.
 - □ 4-6 times per week
 - □ 2-3 times per week
 - □ Once per week
 - □ One or two times per month.
 - □ Less than one time per month.
- Look out for:
 - Should you expect frequency to be constant, or does it change by season, semester, etc?
 - Is it reasonable to suppose respondent can accurately recall frequency, according to your scale?
 - Make sure scale is totally exhaustive and mutually exclusive.

・ロト ・ 同ト ・ ヨト ・ ヨト

Frequency Determination Questions

- 8/17
- Frequency determination questions: Questions which ask for how often some occurrence generally happens.
- How often do you study for your classes, besides completing homework assignments?
 - $\hfill\square$ One ore more times every day.
 - \Box 4-6 times per week
 - \square 2-3 times per week
 - □ Once per week
 - \Box One or two times per month.
 - $\hfill\square$ Less than one time per month.
- Look out for:
 - Should you expect frequency to be constant, or does it change by season, semester, etc?
 - Is it reasonable to suppose respondent can accurately recall frequency, according to your scale?
 - Make sure scale is totally exhaustive and mutually exclusive.

・ロト ・ 同ト ・ ヨト ・ ヨト

Frequency Determination Questions

- 8/17
- Frequency determination questions: Questions which ask for how often some occurrence generally happens.
- How often do you study for your classes, besides completing homework assignments?
 - $\hfill\square$ One ore more times every day.
 - \Box 4-6 times per week
 - □ 2-3 times per week
 - $\hfill\square$ Once per week
 - \Box One or two times per month.
 - $\hfill\square$ Less than one time per month.
- Look out for:
 - Should you expect frequency to be constant, or does it change by season, semester, etc?
 - Is it reasonable to suppose respondent can accurately recall frequency, according to your scale?
 - Make sure scale is totally exhaustive and mutually exclusive.

Frequency Determination Questions

- 8/17
- Frequency determination questions: Questions which ask for how often some occurrence generally happens.
- How often do you study for your classes, besides completing homework assignments?
 - $\hfill\square$ One ore more times every day.
 - \Box 4-6 times per week
 - □ 2-3 times per week
 - $\hfill\square$ Once per week
 - \Box One or two times per month.
 - □ Less than one time per month.
- Look out for:
 - Should you expect frequency to be constant, or does it change by season, semester, etc?
 - Is it reasonable to suppose respondent can accurately recall frequency, according to your scale?
 - Make sure scale is totally exhaustive and mutually exclusive.

Frequency Determination Questions

- 8/17
- Frequency determination questions: Questions which ask for how often some occurrence generally happens.
- How often do you study for your classes, besides completing homework assignments?
 - $\hfill\square$ One ore more times every day.
 - \Box 4-6 times per week
 - □ 2-3 times per week
 - $\hfill\square$ Once per week
 - \Box One or two times per month.
 - □ Less than one time per month.
- Look out for:
 - Should you expect frequency to be constant, or does it change by season, semester, etc?
 - Is it reasonable to suppose respondent can accurately recall frequency, according to your scale?
 - Make sure scale is totally exhaustive and mutually exclusive.

Frequency Determination Questions

- 8/17
- Frequency determination questions: Questions which ask for how often some occurrence generally happens.
- How often do you study for your classes, besides completing homework assignments?
 - $\hfill\square$ One ore more times every day.
 - \Box 4-6 times per week
 - □ 2-3 times per week
 - $\hfill\square$ Once per week
 - \Box One or two times per month.
 - □ Less than one time per month.
- Look out for:
 - Should you expect frequency to be constant, or does it change by season, semester, etc?
 - Is it reasonable to suppose respondent can accurately recall frequency, according to your scale?
 - Make sure scale is totally exhaustive and mutually exclusive.

(4月) イヨト イヨト

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イヨト イヨト

Checklist Questions

• **Checklist question:** fixed-alternative question that allows respondent to provide multiple answers to a question.

- Please check which of the following sources of media you use at least twice per week, if any:
 - Facebook.
 - □ Network television.
 - □ Cable television.
 - □ La Crosse Tribune.
- Offers more flexibility than other fixed-alternative questions.

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イヨト イヨト

Checklist Questions

- **Checklist question:** fixed-alternative question that allows respondent to provide multiple answers to a question.
- Please check which of the following sources of media you use at least twice per week, if any:
 - \Box Facebook.
 - Network television.
 - $\hfill\square$ Cable television.
 - La Crosse Tribune.

• Offers more flexibility than other fixed-alternative questions.

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イヨト イヨト

Checklist Questions

- **Checklist question:** fixed-alternative question that allows respondent to provide multiple answers to a question.
- Please check which of the following sources of media you use at least twice per week, if any:
 - \Box Facebook.
 - Network television.
 - $\hfill\square$ Cable television.
 - La Crosse Tribune.
- Offers more flexibility than other fixed-alternative questions.

Variables Open-ended Questions Fixed Alternative Questions

10/17

Questionnaire Accuracy

• Write questions that generate accurate answers.

- Questions should have answers that are easy to recall.
- Be careful with questions regarding quantity or frequencies: make sure it is reasonable for respondents to accurately report these.
- Do the following questions have accuracy problems? How would you fix it?
 - How many hours per week do you usually study?
 - How many hours do you spend each week on Facebook?
 - How many hours per week do you skip classes?
 - How many credits are you taking at UW-L during Fall 2011?

Variables Open-ended Questions Fixed Alternative Questions

Questionnaire Accuracy

- Write questions that generate accurate answers.
- Questions should have answers that are easy to recall.
- Be careful with questions regarding quantity or frequencies: make sure it is reasonable for respondents to accurately report these.
- Do the following questions have accuracy problems? How would you fix it?
 - How many hours per week do you usually study?
 - How many hours do you spend each week on Facebook?
 - How many hours per week do you skip classes?
 - How many credits are you taking at UW-L during Fall 2011?

Variables Open-ended Questions Fixed Alternative Questions

Questionnaire Accuracy

- Write questions that generate accurate answers.
- Questions should have answers that are easy to recall.
- Be careful with questions regarding quantity or frequencies: make sure it is reasonable for respondents to accurately report these.
- Do the following questions have accuracy problems? How would you fix it?
 - How many hours per week do you usually study?
 - How many hours do you spend each week on Facebook?
 - How many hours per week do you skip classes?
 - How many credits are you taking at UW-L during Fall 2011?

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

Variables Open-ended Questions Fixed Alternative Questions

Questionnaire Accuracy

- Write questions that generate accurate answers.
- Questions should have answers that are easy to recall.
- Be careful with questions regarding quantity or frequencies: make sure it is reasonable for respondents to accurately report these.
- Do the following questions have accuracy problems? How would you fix it?
 - How many hours per week do you usually study?
 - How many hours do you spend each week on Facebook?
 - How many hours per week do you skip classes?
 - How many credits are you taking at UW-L during Fall 2011?

Variables Open-ended Questions Fixed Alternative Questions

Questionnaire Accuracy

- Write questions that generate accurate answers.
- Questions should have answers that are easy to recall.
- Be careful with questions regarding quantity or frequencies: make sure it is reasonable for respondents to accurately report these.
- Do the following questions have accuracy problems? How would you fix it?
 - How many hours per week do you usually study?
 - How many hours do you spend each week on Facebook?
 - How many hours per week do you skip classes?
 - How many credits are you taking at UW-L during Fall 2011?

Variables Open-ended Questions Fixed Alternative Questions

Questionnaire Accuracy

- Write questions that generate accurate answers.
- Questions should have answers that are easy to recall.
- Be careful with questions regarding quantity or frequencies: make sure it is reasonable for respondents to accurately report these.
- Do the following questions have accuracy problems? How would you fix it?
 - How many hours per week do you usually study?
 - How many hours do you spend each week on Facebook?
 - How many hours per week do you skip classes?
 - How many credits are you taking at UW-L during Fall 2011?

Variables Open-ended Questions Fixed Alternative Questions

Questionnaire Accuracy

- Write questions that generate accurate answers.
- Questions should have answers that are easy to recall.
- Be careful with questions regarding quantity or frequencies: make sure it is reasonable for respondents to accurately report these.
- Do the following questions have accuracy problems? How would you fix it?
 - How many hours per week do you usually study?
 - How many hours do you spend each week on Facebook?
 - How many hours per week do you skip classes?
 - How many credits are you taking at UW-L during Fall 2011?

Variables Open-ended Questions Fixed Alternative Questions

Questionnaire Accuracy

- Write questions that generate accurate answers.
- Questions should have answers that are easy to recall.
- Be careful with questions regarding quantity or frequencies: make sure it is reasonable for respondents to accurately report these.
- Do the following questions have accuracy problems? How would you fix it?
 - How many hours per week do you usually study?
 - How many hours do you spend each week on Facebook?
 - How many hours per week do you skip classes?
 - How many credits are you taking at UW-L during Fall 2011?

Ordinal Scales

Variables Open-ended Questions Fixed Alternative Questions

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

- Ordinal scales: Responses to a question that have a natural order/ranking.
- Common attitude scales:
 - Strongly agree, Agree, Disagree, Strongly disagree.
 - Very satisfied, somewhat satisfied, somewhat dissatisfied, very dissatisfied.
- Common quality scale:
 - Excellent, Very Good, Fair, Poor.
- Avoid ambiguous frequency scales:
 - Always, Often, Occasionally, Rarely, Never

Ordinal Scales

Variables Open-ended Questions Fixed Alternative Questions

(ロ) (部) (E) (E)

- **Ordinal scales:** Responses to a question that have a natural order/ranking.
- Common attitude scales:
 - Strongly agree, Agree, Disagree, Strongly disagree.
 - Very satisfied, somewhat satisfied, somewhat dissatisfied, very dissatisfied.
- Common quality scale:
 - Excellent, Very Good, Fair, Poor
- Avoid ambiguous frequency scales:
 - Always, Often, Occasionally, Rarely, Never

Variables Open-ended Questions Fixed Alternative Questions

(ロ) (部) (E) (E)

- Ordinal scales: Responses to a question that have a natural order/ranking.
- Common attitude scales:
 - Strongly agree, Agree, Disagree, Strongly disagree.
 - Very satisfied, somewhat satisfied, somewhat dissatisfied, very dissatisfied.
- Common quality scale:
 - Excellent, Very Good, Fair, Poor
- Avoid ambiguous frequency scales:
 - Always, Often, Occasionally, Rarely, Never

Variables Open-ended Questions Fixed Alternative Questions

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

- Ordinal scales: Responses to a question that have a natural order/ranking.
- Common attitude scales:
 - Strongly agree, Agree, Disagree, Strongly disagree.
 - Very satisfied, somewhat satisfied, somewhat dissatisfied, very dissatisfied.
- Common quality scale:
 - Excellent, Very Good, Fair, Poor
- Avoid ambiguous frequency scales:
 - Always, Often, Occasionally, Rarely, Never

Variables Open-ended Questions Fixed Alternative Questions

(ロ) (部) (E) (E)

- Ordinal scales: Responses to a question that have a natural order/ranking.
- Common attitude scales:
 - Strongly agree, Agree, Disagree, Strongly disagree.
 - Very satisfied, somewhat satisfied, somewhat dissatisfied, very dissatisfied.
- Common quality scale:
 - Excellent, Very Good, Fair, Poor
- Avoid ambiguous frequency scales:
 - Always, Often, Occasionally, Rarely, Never

Variables Open-ended Questions Fixed Alternative Questions

(ロ) (部) (E) (E)

- Ordinal scales: Responses to a question that have a natural order/ranking.
- Common attitude scales:
 - Strongly agree, Agree, Disagree, Strongly disagree.
 - Very satisfied, somewhat satisfied, somewhat dissatisfied, very dissatisfied.
- Common quality scale:
 - Excellent, Very Good, Fair, Poor
- Avoid ambiguous frequency scales:
 - Always, Often, Occasionally, Rarely, Never

Variables Open-ended Questions Fixed Alternative Questions

イロト イポト イヨト イヨト

- Ordinal scales: Responses to a question that have a natural order/ranking.
- Common attitude scales:
 - Strongly agree, Agree, Disagree, Strongly disagree.
 - Very satisfied, somewhat satisfied, somewhat dissatisfied, very dissatisfied.
- Common quality scale:
 - Excellent, Very Good, Fair, Poor
- Avoid ambiguous frequency scales:
 - Always, Often, Occasionally, Rarely, Never

Variables Open-ended Questions Fixed Alternative Questions

(4月) イヨト イヨト

- Ordinal scales: Responses to a question that have a natural order/ranking.
- Common attitude scales:
 - Strongly agree, Agree, Disagree, Strongly disagree.
 - Very satisfied, somewhat satisfied, somewhat dissatisfied, very dissatisfied.
- Common quality scale:
 - Excellent, Very Good, Fair, Poor
- Avoid ambiguous frequency scales:
 - Always, Often, Occasionally, Rarely, Never

Variables Open-ended Questions Fixed Alternative Questions

イロン イヨン イヨン イヨン

Using Ordinal Scales

- Avoid neutral responses (neutral response bias).
- Use no-answer responses if appropriate: no opinion / don't know.
- Limit number of choices to ensure an accurate response.
- Use words, not meaningless numbers (1-10 scales).

Variables Open-ended Questions Fixed Alternative Questions

イロン イヨン イヨン イヨン

Using Ordinal Scales

- Avoid neutral responses (neutral response bias).
- Use no-answer responses if appropriate: no opinion / don't know.
- Limit number of choices to ensure an accurate response.
- Use words, not meaningless numbers (1-10 scales).

Variables Open-ended Questions Fixed Alternative Questions

Using Ordinal Scales

- Avoid neutral responses (neutral response bias).
- Use no-answer responses if appropriate: no opinion / don't know.
- Limit number of choices to ensure an accurate response.
- Use words, not meaningless numbers (1-10 scales).

イロン イヨン イヨン イヨン

Variables Open-ended Questions Fixed Alternative Questions

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

Using Ordinal Scales

- Avoid neutral responses (neutral response bias).
- Use no-answer responses if appropriate: no opinion / don't know.
- Limit number of choices to ensure an accurate response.
- Use words, not meaningless numbers (1-10 scales).

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

Phrasing questions

13/ 17

- Avoid **leading questions:** questions that lead the respondent to a particular conclusion.
- Avoid **loaded questions:** questions that suggest a socially desirable answer, or questions or answers that are emotionally charged.
- Examples:
 - Should foreign-born terrorists caught and held in United States detainment facilities be given the same legal rights as U.S. citizens?
 - Do you believe it is acceptable for the United States to detain potentially innocent battlefield detainees without legal representation and interrogate them by means that violate the Geneva Convention against torture?
 - Do you believe the presumption of innocence should apply to suspected enemy combatants.

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

Phrasing questions

13/ 17

- Avoid **leading questions:** questions that lead the respondent to a particular conclusion.
- Avoid **loaded questions:** questions that suggest a socially desirable answer, or questions or answers that are emotionally charged.
- Examples:
 - Should foreign-born terrorists caught and held in United States detainment facilities be given the same legal rights as U.S. citizens?
 - Do you believe it is acceptable for the United States to detain potentially innocent battlefield detainees without legal representation and interrogate them by means that violate the Geneva Convention against torture?
 - Do you believe the presumption of innocence should apply to suspected enemy combatants.

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

Phrasing questions

- Avoid **leading questions:** questions that lead the respondent to a particular conclusion.
- Avoid **loaded questions:** questions that suggest a socially desirable answer, or questions or answers that are emotionally charged.
- Examples:
 - Should foreign-born terrorists caught and held in United States detainment facilities be given the same legal rights as U.S. citizens?
 - Do you believe it is acceptable for the United States to detain potentially innocent battlefield detainees without legal representation and interrogate them by means that violate the Geneva Convention against torture?
 - Do you believe the presumption of innocence should apply to suspected enemy combatants.

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

Phrasing questions

13/ 17

- Avoid **leading questions:** questions that lead the respondent to a particular conclusion.
- Avoid **loaded questions:** questions that suggest a socially desirable answer, or questions or answers that are emotionally charged.
- Examples:
 - Should foreign-born terrorists caught and held in United States detainment facilities be given the same legal rights as U.S. citizens?
 - Do you believe it is acceptable for the United States to detain potentially innocent battlefield detainees without legal representation and interrogate them by means that violate the Geneva Convention against torture?
 - Do you believe the presumption of innocence should apply to suspected enemy combatants.

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

Phrasing questions

- Avoid **leading questions:** questions that lead the respondent to a particular conclusion.
- Avoid **loaded questions:** questions that suggest a socially desirable answer, or questions or answers that are emotionally charged.
- Examples:
 - Should foreign-born terrorists caught and held in United States detainment facilities be given the same legal rights as U.S. citizens?
 - Do you believe it is acceptable for the United States to detain potentially innocent battlefield detainees without legal representation and interrogate them by means that violate the Geneva Convention against torture?
 - Do you believe the presumption of innocence should apply to suspected enemy combatants.

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

Phrasing questions

13/ 17

- Avoid **leading questions:** questions that lead the respondent to a particular conclusion.
- Avoid **loaded questions:** questions that suggest a socially desirable answer, or questions or answers that are emotionally charged.
- Examples:
 - Should foreign-born terrorists caught and held in United States detainment facilities be given the same legal rights as U.S. citizens?
 - Do you believe it is acceptable for the United States to detain potentially innocent battlefield detainees without legal representation and interrogate them by means that violate the Geneva Convention against torture?
 - Do you believe the presumption of innocence should apply to suspected enemy combatants.

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

Avoid Ambiguity

14/17

- How often do you read your local newspaper or popular national newspapers such as the *Wall Street Journal* or the *New York Times*?
 □ Frequently □ Occasionally □ Hardly Ever □ Never
 - Where is the line between frequently and occasionally?
 - Does the New York Post count as a "popular national newspaper?"
- How many car repairs did you do in the last year?
 - Do yourself or take to a mechanic?
 - Per-car, or for all the cars you owned?
 - Repairs you made for other people?
- How would you rate your experience at UW-L?
 - What about the experience? Quality of education? Friendliness of faculty and staff? Extra-curricular experience?
 - For an "overall" question, ask something more specific and meaningful, "Would you recommend UW-L to a friend or family member?"

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

Avoid Ambiguity

- How often do you read your local newspaper or popular national newspapers such as the *Wall Street Journal* or the *New York Times*?
 □ Frequently □ Occasionally □ Hardly Ever □ Never
 - Where is the line between frequently and occasionally?
 - Does the New York Post count as a "popular nationa newspaper?"
- How many car repairs did you do in the last year?
 - Do yourself or take to a mechanic?
 - Per-car, or for all the cars you owned?
 - Repairs you made for other people?
- How would you rate your experience at UW-L?
 - What about the experience? Quality of education?
 Friendliness of faculty and staff? Extra-curricular experience?
 - For an "overall" question, ask something more specific and meaningful, "Would you recommend UW-L to a friend or family member?"

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

Avoid Ambiguity

- How often do you read your local newspaper or popular national newspapers such as the *Wall Street Journal* or the *New York Times*?
 □ Frequently □ Occasionally □ Hardly Ever □ Never
 - Where is the line between frequently and occasionally?
 - Does the New York Post count as a "popular national newspaper?"
- How many car repairs did you do in the last year?
 - Do yourself or take to a mechanic?
 - Per-car, or for all the cars you owned?
 - Repairs you made for other people?
- How would you rate your experience at UW-L?
 - What about the experience? Quality of education? Friendliness of faculty and staff? Extra-curricular experience?
 - For an "overall" question, ask something more specific and meaningful, "Would you recommend UW-L to a friend or family member?"

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

Avoid Ambiguity

- How often do you read your local newspaper or popular national newspapers such as the *Wall Street Journal* or the *New York Times*?
 □ Frequently □ Occasionally □ Hardly Ever □ Never
 - Where is the line between frequently and occasionally?
 - Does the New York Post count as a "popular national newspaper?"
- How many car repairs did you do in the last year?
 - Do yourself or take to a mechanic?
 - Per-car, or for all the cars you owned?
 - Repairs you made for other people?
- How would you rate your experience at UW-L?
 - What about the experience? Quality of education? Friendliness of faculty and staff? Extra-curricular experience?
 - For an "overall" question, ask something more specific and meaningful, "Would you recommend UW-L to a friend or family member?"

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

Avoid Ambiguity

- How often do you read your local newspaper or popular national newspapers such as the *Wall Street Journal* or the *New York Times*?
 □ Frequently □ Occasionally □ Hardly Ever □ Never
 - Where is the line between frequently and occasionally?
 - Does the New York Post count as a "popular national newspaper?"
- How many car repairs did you do in the last year?
 - Do yourself or take to a mechanic?
 - Per-car, or for all the cars you owned?
 - Repairs you made for other people?
- How would you rate your experience at UW-L?
 - What about the experience? Quality of education? Friendliness of faculty and staff? Extra-curricular experience?
 - For an "overall" question, ask something more specific and meaningful, "Would you recommend UW-L to a friend or family member?"

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

Avoid Ambiguity

- How often do you read your local newspaper or popular national newspapers such as the *Wall Street Journal* or the *New York Times*?
 □ Frequently □ Occasionally □ Hardly Ever □ Never
 - Where is the line between frequently and occasionally?
 - Does the New York Post count as a "popular national newspaper?"
- How many car repairs did you do in the last year?
 - Do yourself or take to a mechanic?
 - Per-car, or for all the cars you owned?
 - Repairs you made for other people?
- How would you rate your experience at UW-L?
 - What about the experience? Quality of education?
 Friendliness of faculty and staff? Extra-curricular experience?
 - For an "overall" question, ask something more specific and meaningful, "Would you recommend UW-L to a friend or family member?"

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

Avoid Ambiguity

- How often do you read your local newspaper or popular national newspapers such as the *Wall Street Journal* or the *New York Times*?
 □ Frequently □ Occasionally □ Hardly Ever □ Never
 - Where is the line between frequently and occasionally?
 - Does the New York Post count as a "popular national newspaper?"
- How many car repairs did you do in the last year?
 - Do yourself or take to a mechanic?
 - Per-car, or for all the cars you owned?
 - Repairs you made for other people?
- How would you rate your experience at UW-L?
 - What about the experience? Quality of education?
 Friendliness of faculty and staff? Extra-curricular experience?
 - For an "overall" question, ask something more specific and meaningful, "Would you recommend UW-L to a friend or family member?"

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

イロト イポト イヨト イヨト

Avoid Ambiguity

- How often do you read your local newspaper or popular national newspapers such as the *Wall Street Journal* or the *New York Times*?
 □ Frequently □ Occasionally □ Hardly Ever □ Never
 - Where is the line between frequently and occasionally?
 - Does the New York Post count as a "popular national newspaper?"
- How many car repairs did you do in the last year?
 - Do yourself or take to a mechanic?
 - Per-car, or for all the cars you owned?
 - Repairs you made for other people?
- How would you rate your experience at UW-L?
 - What about the experience? Quality of education?
 Friendliness of faculty and staff? Extra-curricular experience?
 - For an "overall" question, ask something more specific and meaningful, "Would you recommend UW-L to a friend or family member?"

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

イロト イポト イヨト イヨト

Avoid Ambiguity

- How often do you read your local newspaper or popular national newspapers such as the *Wall Street Journal* or the *New York Times*?
 □ Frequently □ Occasionally □ Hardly Ever □ Never
 - Where is the line between frequently and occasionally?
 - Does the New York Post count as a "popular national newspaper?"
- How many car repairs did you do in the last year?
 - Do yourself or take to a mechanic?
 - Per-car, or for all the cars you owned?
 - Repairs you made for other people?
- How would you rate your experience at UW-L?
 - What about the experience? Quality of education? Friendliness of faculty and staff? Extra-curricular experience?
 - For an "overall" question, ask something more specific and meaningful, "Would you recommend UW-L to a friend or family member?"

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

イロト イポト イヨト イヨト

Avoid Ambiguity

- How often do you read your local newspaper or popular national newspapers such as the *Wall Street Journal* or the *New York Times*?
 □ Frequently □ Occasionally □ Hardly Ever □ Never
 - Where is the line between frequently and occasionally?
 - Does the New York Post count as a "popular national newspaper?"
- How many car repairs did you do in the last year?
 - Do yourself or take to a mechanic?
 - Per-car, or for all the cars you owned?
 - Repairs you made for other people?
- How would you rate your experience at UW-L?
 - What about the experience? Quality of education? Friendliness of faculty and staff? Extra-curricular experience?
 - For an "overall" question, ask something more specific and meaningful, "Would you recommend UW-L to a friend or family member?"

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

イロト イポト イヨト イヨト

Explicit and Implicit Assumptions

• Avoid questions that make assumptions:

- Should General Electric continue to pay its stockholders its outstanding quarterly dividends? Yes/No
- The researcher made an assumption for the respondent, that the respondent might not necessarily believe.
- Avoid questions that assume the respondents have thought about an issue, or have knowledge of an issue:
 - Should Cartwright Center change its name? Yes / No
 - Many respondents will answer, even though they have no prior opinion and no prior knowledge of the topic.

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

イロト イポト イヨト イヨト

Explicit and Implicit Assumptions

• Avoid questions that make assumptions:

- Should General Electric continue to pay its stockholders its outstanding quarterly dividends? Yes/No
- The researcher made an assumption for the respondent, that the respondent might not necessarily believe.
- Avoid questions that assume the respondents have thought about an issue, or have knowledge of an issue:
 - Should Cartwright Center change its name? Yes / No
 - Many respondents will answer, even though they have no prior opinion and no prior knowledge of the topic.

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

Explicit and Implicit Assumptions

- Avoid questions that make assumptions:
 - Should General Electric continue to pay its stockholders its outstanding quarterly dividends? Yes/No
 - The researcher made an assumption for the respondent, that the respondent might not necessarily believe.
- Avoid questions that assume the respondents have thought about an issue, or have knowledge of an issue:
 - Should Cartwright Center change its name? Yes / No
 - Many respondents will answer, even though they have no prior opinion and no prior knowledge of the topic.

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

Explicit and Implicit Assumptions

- Avoid questions that make assumptions:
 - Should General Electric continue to pay its stockholders its outstanding quarterly dividends? Yes/No
 - The researcher made an assumption for the respondent, that the respondent might not necessarily believe.
- Avoid questions that assume the respondents have thought about an issue, or have knowledge of an issue:
 - Should Cartwright Center change its name? Yes / No
 - Many respondents will answer, even though they have no prior opinion and no prior knowledge of the topic.

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

Explicit and Implicit Assumptions

- Avoid questions that make assumptions:
 - Should General Electric continue to pay its stockholders its outstanding quarterly dividends? Yes/No
 - The researcher made an assumption for the respondent, that the respondent might not necessarily believe.
- Avoid questions that assume the respondents have thought about an issue, or have knowledge of an issue:
 - Should Cartwright Center change its name? Yes / No
 - Many respondents will answer, even though they have no prior opinion and no prior knowledge of the topic.

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

Loaded and Leading Questions Ambiguous Phrasing Explicit and Implicit Assumptions

Explicit and Implicit Assumptions

- Avoid questions that make assumptions:
 - Should General Electric continue to pay its stockholders its outstanding quarterly dividends? Yes/No
 - The researcher made an assumption for the respondent, that the respondent might not necessarily believe.
- Avoid questions that assume the respondents have thought about an issue, or have knowledge of an issue:
 - Should Cartwright Center change its name? Yes / No
 - Many respondents will answer, even though they have no prior opinion and no prior knowledge of the topic.

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

Examples Sequencing Strategies

16/ 17

Question/Answer Sequence

- Sometimes the ordering of alternatives can influence which outcome people pick:
- Which candidate are you most likely going to vote for in the 95th Assembly Race:
 Jill Billings,
 Nick Charles,
 Christine Clair,
 David Krump.
- Often times the ordering of questions can influence the response to the questions that follow:
- How satisfied are you with the outside availability of your instructors at UW-L?
- How satisfied are you with the knowledge/expertise of your instructors at UW-L?

- How satisfied are you with the quality of your instructors at UW-L?
- How satisfied are you with the quality of academic technology at UW-L?
- How satisfied are you with the quality of academic resources at UW-L?
- How satisfied are you with the quality of your education at UW-L?

Examples Sequencing Strategies

Question/Answer Sequence

16/17

- Sometimes the ordering of alternatives can influence which outcome people pick:
- Often times the ordering of questions can influence the response to the questions that follow:
- How satisfied are you with the outside availability of your instructors at UW-L?
- How satisfied are you with the knowledge/expertise of your instructors at UW-L?

- How satisfied are you with the quality of your instructors at UW-L?
- How satisfied are you with the quality of academic technology at UW-L?
- How satisfied are you with the quality of academic resources at UW-L?
- How satisfied are you with the quality of your education at UW-L?

Examples Sequencing Strategies

Question/Answer Sequence

16/17

- Sometimes the ordering of alternatives can influence which outcome people pick:
- Which candidate are you most likely going to vote for in the 95th Assembly Race:
 Dill Billings,
 Nick Charles,
 Christine Clair,
 David Krump.
- Often times the ordering of questions can influence the response to the questions that follow:
- How satisfied are you with the outside availability of your instructors at UW-L?
- How satisfied are you with the knowledge/expertise of your instructors at UW-L?

- How satisfied are you with the quality of your instructors at UW-L?
- How satisfied are you with the quality of academic technology at UW-L?
- How satisfied are you with the quality of academic resources at UW-L?
- How satisfied are you with the quality of your education at UW-L?

Examples Sequencing Strategies

Question/Answer Sequence

16/17

- Sometimes the ordering of alternatives can influence which outcome people pick:
- Which candidate are you most likely going to vote for in the 95th Assembly Race:
 Dill Billings, DNick Charles, Christine Clair, David Krump.
- Often times the ordering of questions can influence the response to the questions that follow:
- How satisfied are you with the outside availability of your instructors at UW-L?
- How satisfied are you with the knowledge/expertise of your instructors at UW-L?

- How satisfied are you with the quality of your instructors at UW-L?
- How satisfied are you with the quality of academic technology at UW-L?
- How satisfied are you with the quality of academic resources at UW-L?
- How satisfied are you with the quality of your education at UW-L?

Examples Sequencing Strategies

Question/Answer Sequence

16/17

- Sometimes the ordering of alternatives can influence which outcome people pick:
- Which candidate are you most likely going to vote for in the 95th Assembly Race:
 Dill Billings, DNick Charles, Christine Clair, David Krump.
- Often times the ordering of questions can influence the response to the questions that follow:
- How satisfied are you with the outside availability of your instructors at UW-L?
- How satisfied are you with the knowledge/expertise of your instructors at UW-L?

- How satisfied are you with the quality of your instructors at UW-L?
- How satisfied are you with the quality of academic technology at UW-L?
- How satisfied are you with the quality of academic resources at UW-L?
- How satisfied are you with the quality of your education at UW-L?

Examples Sequencing Strategies

Question/Answer Sequence

16/17

- Sometimes the ordering of alternatives can influence which outcome people pick:
- Which candidate are you most likely going to vote for in the 95th Assembly Race:
 Dill Billings, DNick Charles, Christine Clair, David Krump.
- Often times the ordering of questions can influence the response to the questions that follow:
- How satisfied are you with the outside availability of your instructors at UW-L?
- How satisfied are you with the knowledge/expertise of your instructors at UW-L?

- How satisfied are you with the quality of your instructors at UW-L?
- How satisfied are you with the quality of academic technology at UW-L?
- How satisfied are you with the quality of academic resources at UW-L?
- How satisfied are you with the quality of your education at UW-L?

Examples Sequencing Strategies

Question/Answer Sequence

16/17

- Sometimes the ordering of alternatives can influence which outcome people pick:
- Which candidate are you most likely going to vote for in the 95th Assembly Race:
 Jill Billings,
 Nick Charles,
 Christine Clair,
 David Krump.
- Often times the ordering of questions can influence the response to the questions that follow:
- How satisfied are you with the outside availability of your instructors at UW-L?
- How satisfied are you with the knowledge/expertise of your instructors at UW-L?

- How satisfied are you with the quality of your instructors at UW-L?
- How satisfied are you with the quality of academic technology at UW-L?
- How satisfied are you with the quality of academic resources at UW-L?
- How satisfied are you with the quality of your education at UW-L?

Examples Sequencing Strategies

Question/Answer Sequence

- 16/17
- Sometimes the ordering of alternatives can influence which outcome people pick:
- Which candidate are you most likely going to vote for in the 95th Assembly Race:
 Jill Billings,
 Nick Charles,
 Christine Clair,
 David Krump.
- Often times the ordering of questions can influence the response to the questions that follow:
- How satisfied are you with the outside availability of your instructors at UW-L?
- How satisfied are you with the knowledge/expertise of your instructors at UW-L?

- How satisfied are you with the quality of your instructors at UW-L?
- How satisfied are you with the quality of academic technology at UW-L?
- How satisfied are you with the quality of academic resources at UW-L?
- How satisfied are you with the quality of your education at UW-L?

Examples Sequencing Strategies

Question/Answer Sequence

16/17

- Sometimes the ordering of alternatives can influence which outcome people pick:
- Which candidate are you most likely going to vote for in the 95th Assembly Race:
 Jill Billings,
 Nick Charles,
 Christine Clair,
 David Krump.
- Often times the ordering of questions can influence the response to the questions that follow:
- How satisfied are you with the outside availability of your instructors at UW-L?
- How satisfied are you with the knowledge/expertise of your instructors at UW-L?

- How satisfied are you with the quality of your instructors at UW-L?
- How satisfied are you with the quality of academic technology at UW-L?
- How satisfied are you with the quality of academic resources at UW-L?
- How satisfied are you with the quality of your education at UW-L?

Examples Sequencing Strategies

Sequencing Strategies

- 17/17
- Funnel technique: strategy of asking general questions before specific questions in order to limit question-sequence bias.
- Avoid bias by giving multiple alternative questionnaires that differ on order.
- Filter question: To eliminate bias caused by lack of knowledge or prior opinion, first ask questions that reveal the respondent's background on the topic, then proceed only if there is sufficient background.
 - Do you plan to vote in the upcoming Democratic primary election for the Wisconsin 95th Assembly seat?

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

Examples Sequencing Strategies

Sequencing Strategies

- Funnel technique: strategy of asking general questions before specific questions in order to limit question-sequence bias.
- Avoid bias by giving multiple alternative questionnaires that differ on order.
- **Filter question:** To eliminate bias caused by lack of knowledge or prior opinion, first ask questions that reveal the respondent's background on the topic, then proceed only if there is sufficient background.
 - Do you plan to vote in the upcoming Democratic primary election for the Wisconsin 95th Assembly seat?

・ロト ・ 日 ・ ・ ヨ ・ ・ ヨ ・

Examples Sequencing Strategies

Sequencing Strategies

- Funnel technique: strategy of asking general questions before specific questions in order to limit question-sequence bias.
- Avoid bias by giving multiple alternative questionnaires that differ on order.
- Filter question: To eliminate bias caused by lack of knowledge or prior opinion, first ask questions that reveal the respondent's background on the topic, then proceed only if there is sufficient background.
 - Do you plan to vote in the upcoming Democratic primary election for the Wisconsin 95th Assembly seat?

Examples Sequencing Strategies

Sequencing Strategies

- **Funnel technique:** strategy of asking general questions before specific questions in order to limit question-sequence bias.
- Avoid bias by giving multiple alternative questionnaires that differ on order.
- Filter question: To eliminate bias caused by lack of knowledge or prior opinion, first ask questions that reveal the respondent's background on the topic, then proceed only if there is sufficient background.
 - Do you plan to vote in the upcoming Democratic primary election for the Wisconsin 95th Assembly seat?

Examples Sequencing Strategies

Sequencing Strategies

- Funnel technique: strategy of asking general questions before specific questions in order to limit question-sequence bias.
- Avoid bias by giving multiple alternative questionnaires that differ on order.
- Filter question: To eliminate bias caused by lack of knowledge or prior opinion, first ask questions that reveal the respondent's background on the topic, then proceed only if there is sufficient background.
 - Do you plan to vote in the upcoming Democratic primary election for the Wisconsin 95th Assembly seat?

イロト イポト イヨト イヨト