

# OSU 2020 Survey Instrument

*[The survey was implemented online via Qualtrics.]*

Thank you for your interest in taking this survey. How many years old are you?

Thank you for agreeing to take this survey! We expect it will take around 20 minutes. We hope to use this survey to continue improving the Exploration program. Honest and thoughtful answers from you are therefore extremely helpful.

Throughout the survey, we will ask you your thoughts and plans about groups of jobs or majors. When we do, they will often appear in blue. This means you can click on it to learn what the group includes.

Here is an example of a button you can click on: “Prime numbers” includes: 1, 2, 3, 5, 7, 11, and so on.

To start, we’d like to ask you about what college major you think you might pursue.

Please rank the following groups of majors by the likelihood that you think you will graduate with a major in each group. You can do so by dragging and dropping them, where a ranking of “1” (at the top of the list) means most likely, and a ranking of “10” (at the bottom) means least likely.

- Business or Economics
- Math, Engineering, or Computer Science
- Humanities
- Biology or Chemistry
- Psychology or Social Work
- Education
- Art or Entertainment
- Communication or Journalism
- Nursing or Non-Doctor Health Professions
- Government or Political Science

*[The survey then takes the top two ranked majors from above and two other random majors. For each major  $m$  of these four “target” majors...]*

What do you think is the percent chance that you will...

- graduate from OSU with a major in  $m$
- graduate from OSU with any other major?

- transfer from OSU to a different college?
- drop out of OSU?

Next, we'd like to ask you about what careers you think you might have after college.

Please rank the following careers by the likelihood you will hold that job when you are age 30. You can do so by dragging and dropping them, where a ranking of "1" (at the top of the list) means most likely, and a ranking of "9" (at the bottom) means least likely.

- Doctor
- Lawyer or Judge
- Engineer or Computer Scientist
- Business Person
- Health Care Worker (non-doctor)
- Teacher
- Artist or Entertainer
- Social Worker or Counselor
- Journalist or Writer

*[The survey then takes the top two ranked careers from above and two other random careers]*

What do you think is the percent chance that at age 30 you will be...

- [Each of the four chosen careers on a separate line]?
- Working in any other job?
- Not working for pay?

We'd now like to ask you some questions about specific groups of majors. To keep the survey short, we'll only ask you about the following four groups of majors:  $m$ .

*[For each major  $m$  in the target group...]* We'd next like to ask you questions about  $m$ .

What is your best guess about the percent of Exploration students who start a major in  $m$  that end up...

- graduating from OSU with a major in  $m$ ?
- graduating from OSU with a different major (i.e. switch majors)?
- dropping out or transferring out of OSU?

Now imagine that **you** decided to pursue a major in  $m$ . What is your best guess of the percent chance that you would...

- be able to graduate from OSU with a major in  $m$ ?
- have to switch majors (e.g., because of poor grades or bad fit)?
- have to drop out or transfer out of OSU?

What is your best guess about the percent of Exploration students who start a major in  $m$  that earn a sophomore year GPA of...

- less than 2.3 (that is, less than a C+)?
- from 2.3 to 2.7 (from a C+ to B-)?
- from 2.7 to 3.3 (from a B- to a B+)?
- from 3.3 to 3.7 (from a B+ to A-)?
- more than 3.7 (more than A-)?

Again imagine that you decided to pursue a major in  $m$ . What is your best guess about the percent chance that you would earn a sophomore year GPA of...

- less than 2.3 (that is, less than a C+)?
- from 2.3 to 2.7 (from a C+ to B-)?
- from 2.7 to 3.3 (from a B- to a B+)?
- from 3.3 to 3.7 (from a B+ to A-)?
- more than 3.7 (more than A-)?

What is your best guess about the percent of Americans aged 30-50 (note, not just from Exploration or OSU) who graduated with a major in  $m$  that are...

- Doctor
- Lawyer or Judge
- Engineer or Computer Scientist
- Business Person
- Health Care Worker (non-doctor)
- Teacher
- Artist or Entertainer
- Social Worker or Counselor
- Journalist or Writer
- Working in any other job?
- Not working for pay?

Now imagine that ***you*** successfully graduate from OSU with a major in  $m$ .

What is your best guess about the percent chance that, when you are 30 years old, you would be...

- Doctor
- Lawyer or Judge
- Engineer or Computer Scientist
- Business Person
- Health Care Worker (non-doctor)
- Teacher
- Artist or Entertainer
- Social Worker or Counselor
- Journalist or Writer
- Working in any other job?
- Not working for pay?

What is your best guess of the percent of Americans aged 30 to 50 who graduated with a major in  $m$  who are working full time that earn an annual salary of...

- Less than \$30,000
- Between \$30,000 and \$60,000
- Between \$60,000 and \$90,000
- Between \$90,000 and \$120,000
- Between \$120,000 and \$150,000
- More than \$150,000

Again imagine that **you** successfully graduate from OSU with a major in  $m$ . Also imagine that you are working full-time. What do you think is the percent chance that, when you are 30 years old, you would earn an annual salary of...

- Less than \$30,000
- Between \$30,000 and \$60,000
- Between \$60,000 and \$90,000
- Between \$90,000 and \$120,000
- Between \$120,000 and \$150,000
- More than \$150,000

We'd now like to ask you some questions about specific groups of careers. Just like with majors, we'll only ask you four groups of careers: [Same four careers as above].

*[For each major  $c$  in the target group...]* We'd next like to ask you questions about  $c$ .

What is your best guess of the percent of Americans aged 30 to 50 who are working full-time as  $c$  that earn an annual salary of...

- Less than \$30,000
- Between \$30,000 and \$60,000
- Between \$60,000 and \$90,000
- Between \$90,000 and \$120,000
- Between \$120,000 and \$150,000
- More than \$150,000

Now imagine that, at age 30, **you** are working full-time as a  $c$ . What do you think is the percent chance that you would earn an annual salary of...

- Less than \$30,000
- Between \$30,000 and \$60,000
- Between \$60,000 and \$90,000
- Between \$90,000 and \$120,000
- Between \$120,000 and \$150,000
- More than \$150,000

Thanks for taking our survey! We have a few final questions for you.

Which of the following resources have you used to learn more about majors or about jobs?

- Personal friends

- Family members
- Academic advisors
- Professors or teachers
- Internet articles
- Other (please specify)
- None

*[Carrying forward the selected resources...]* Please rank the resources you selected by how much you have relied on them. You can do so by dragging and dropping them, where a ranking of “1” (at the top of the list) means you relied on it the most.

We’re trying to learn what additional information students feel they need to help choose which major to pursue. Which of the following pieces of information would you find helpful? Please select all that apply.

- Salaries for different majors/jobs
- Survey information about how enjoyable majors are
- Survey information about how difficult majors are
- GPA information for students in different majors
- What jobs people with different majors pursue
- What majors tend to lead to students dropping out of school
- Survey information about job satisfaction for different jobs/majors
- Number of hours per week that people with different jobs or majors work

*[Carrying forward the selected pieces of information...]* Please rank the pieces of information you selected by how helpful you think each would be to you. You can do so by dragging and dropping them, where a ranking of “1” (at the top of the list) means you think it would be most helpful.

How difficult did you find it to answer the “percent” and “percent chance” questions in this survey?

- Extremely difficult
- Moderately difficult
- Not very difficult
- Not at all difficult

What is your gender?

- Male
- Female
- Other
- Prefer not to answer

Which of the following categories describes you (select all that apply)?

- White
- Black or African American

- American Indian or Alaska Native
- Asian
- Native Hawaiian or Pacific Islander
- Hispanic
- Other (please specify)
- Prefer not to say

What is the highest level of education that either of your parents or guardians achieved?

- Less than high school degree
- High school degree or GED
- Some college, but no degree
- 2-year college degree
- 4-year college degree
- Any post-graduate degree
- I don't know

What is your family's household income each year, *before* taxes? Please give your best estimate.

- \$0-\$9,999
- \$10,000-\$14,999
- \$15,000-\$19,999
- \$20,000-\$29,999
- \$30,000-\$39,999
- \$40,000-\$49,999
- \$50,000-\$69,999
- \$70,000-\$89,999
- \$90,000-\$109,999
- \$110,000-\$149,999
- \$150,000-\$199,999
- More than \$200,000

## Fall 2021 Exploration Survey Round 1

*[The survey was implemented online via Qualtrics.]*

*[Consent]*

We appreciate you taking the time to take this survey, which should take around 25 minutes.

We hope to use this survey to continue improving the Exploration program. It is also part of a research study (more details on the next screen) trying to learn more about how students think about their education.

Honest and thoughtful answers from you are therefore extremely helpful.

Throughout the survey, we will ask you your thoughts and plans about groups of jobs or majors. When we do, they will often appear in blue. This means you can click on it to learn what the group includes.

Here is an example of a button you can click on: “Prime numbers” includes: 1, 2, 3, 5, 7, 11, and so on.

To start, we’d like to ask you about what college major you think you might pursue. Throughout the survey, we’d like you to be thinking about your "primary" major. That is, even if you think you might have more than one major, please answer the questions assuming you can only choose one.

Please select the two groups of majors below that you think you are most likely to graduate with a major in. As a reminder, you can click each major to learn more details.

Because you listed them as your most likely majors, the rest of the questions in the survey about majors will M2.

What do you think is the percent chance that you will...

- graduate from OSU with a major in M1
- graduate from OSU with a major in M2
- graduate from OSU with any other major?
- not graduate from OSU?

What do you think is the percent chance that next semester you take at least one class in... M1? M2?

And how many classes do you anticipate taking in each field next semester?

How many hours a week do you anticipate studying (including homework, reading for class, etc.) on a typical week next semester?

How many hours a week do you expect to typically spend studying (including homework, reading, etc.) if you major in... M1? M2?

How much per year do you think the average 35-year old American college graduate earns who majored in... M1? M2?

On a scale from 0 (hate) to 100 (love), how much do you think you would enjoy the classes if you graduated with a major in... M1? M2?

On a scale from 0 (hate) to 100 (love), how much do you think you would get along with your peers and professors if you graduated with a major in... M1? M2?

On a scale from 0 (not proud at all) to 100 (very proud), how proud of yourself would you be if you graduated with a major in... M1? M2?

We're trying to learn how much students value some majors over others, putting aside the effect on their careers and lives after college.

Imagine that you could receive a one-time payment depending on whether you chose to major in M1 or in M2. Suppose you would not switch majors and would graduate in 4 years, no matter what you chose. Assume that the job you hold and everything else in your life after college would be the same: the only thing that changes is your experience in college and which major you chose at OSU. For each row below, please choose which option you would prefer.

Which field would you prefer to major in? [A series of binary choices followed of the form "Get paid X for majoring in M1 or Get paid Y for majoring in M2"]

This section of the survey will ask you about the career you might go on to have, as well as the careers that other people have.

What is your best guess about the percent of 35 year-old Americans (note, not just from Exploration or OSU) who have graduated from a 4-year college that are...

- Doctor
- Lawyer or Judge
- Engineer or Computer Scientist
- Business Person
- Health Care Worker (non-doctor)
- Teacher
- Artist or Entertainer
- Social Worker or Counselor



- Journalist or Writer
- Working in any other job?
- Not working for pay?

Now imagine that you successfully graduate from OSU.

What is your best guess about the percent chance that, when you are 35 years old, you would be...

- Doctor
- Lawyer or Judge
- Engineer or Computer Scientist
- Business Person
- Health Care Worker (non-doctor)
- Teacher
- Artist or Entertainer
- Social Worker or Counselor
- Journalist or Writer
- Working in any other job?
- Not working for pay (e.g., unemployed or a full-time parent)?

Because you listed them as your most likely careers (we broke ties randomly), the rest of the questions in the survey about careers will mostly ask about C1 and C2.

We are now going to ask you some questions about 35-year-old college graduates in the United States (note, not just from Exploration or OSU) who currently work as a C1 or a C2. We chose these because you said they were your most likely careers.

How many hours per week do you think the typical person works who is a... C1? C2?

How much per year do you think the average 35-year old American college graduate earns who is a... C1? C2?

Now think about yourself. On a scale from 0 (not proud at all) to 100 (very proud), how proud of yourself would you be if you worked as a... C1? C2?

For this question, suppose you could choose for sure between being a C1 or being a C2.

Assume that no matter what you major in, you can work in either of these jobs and be paid the annual salary below for your whole career. Please assume that the only thing changing about each type of job is the salary (e.g., the required hours in each column are staying the same). For each row, please choose which option you would prefer.

Which would you prefer? [A series of binary choices followed of the form “Earn X per year as a C1 or Earn Y per year as a C2”]

We’d now like to ask you some questions about how college majors relate to careers and about how you think your choice of major will affect your future job opportunities.

[cycled through top two majors ]We'd [now/next] like to ask you about M.

What is your best guess about the percent of 35-year old Americans (note, not just from Exploration or OSU) who graduated with a major in M that are...

- Doctor
- Lawyer or Judge
- Engineer or Computer Scientist
- Business Person
- Health Care Worker (non-doctor)
- Teacher
- Artist or Entertainer
- Social Worker or Counselor
- Journalist or Writer
- Working in any other job?
- Not working for pay (e.g., unemployed or a full-time parent)?

And on a scale between 0 (completely uncertain) and 100 (completely certain), how confident are you that the answers above are close to correct?

Now imagine that you successfully graduate from OSU with a major in M.

What is your best guess about the percent chance that, when you are 35 years old, you would be...

- Doctor
- Lawyer or Judge
- Engineer or Computer Scientist
- Business Person
- Health Care Worker (non-doctor)
- Teacher
- Artist or Entertainer
- Social Worker or Counselor
- Journalist or Writer
- Working in any other job?
- Not working for pay (e.g., unemployed or a full-time parent)?

We just want to double check that everyone is paying attention and trying their best to answer each question as well as they can. Can you please enter the letter "k"?

We'd like to learn more about how you form your opinions about what jobs you might have with different majors.

The next questions will ask you to imagine that you learned that more or fewer people who majored in M [their top major] ended up becoming C [their top career]. We'd like to know how that would impact your opinion about how likely you would be to become a C if you majored in M.

We'll ask you the same question three times. The first time, we'll have you imagine that

10% of M majors become Cs. The second time, we'll have you imagine the number is 50%, and the third time, 90%.

We know these questions can feel a bit repetitive, but it's very important to us that you take them seriously. Thanks so much for your patience!

[Loops through the three percentages P]

Next suppose you learned that P% of M majors in the United States were working as Cs when they are 35 years old.

If you learned this, what would you think is the percent chance that if you graduated with a M major, then at age 35 you would be...

- a C?
- Working in any other job?
- Not working for pay (e.g., unemployed or a full-time parent)?

The previous questions asked how your opinion about what job you would get with a major in M would change if you learned that more or fewer M majors become Cs.

We'd now like to ask how learning the same information might (or might not) change your decisions in college. It's ok if the answer is that it wouldn't change your decisions: we just want your honest thoughts.

[Loops through the three percentages P]

Next suppose you learned that P% of M1 majors in the United States were working as Cs when they are 35 years old.

If you learned that, what would you think is the percent chance that you would...

- Graduate from OSU with a major in M1?
- Graduate with a major in M2?
- Graduate from OSU with any other major?
- Not graduate from OSU?

And if that were true, how many hours per week do you think you would study for your classes next semester (including homework and reading for class)?

You originally guessed that you would study H hours per week.

For the next set of questions, please imagine that you had to enter an occupation OTHER THAN being a C. We'd like to learn how this would possibly affect your choices in college and afterward.

We'll ask you some similar questions to the ones before.

Suppose that you had to enter an occupation OTHER THAN being a C.

If so, what do you think is the percent chance that you would...

- Graduate from OSU with a major in M1?
- Graduate with a major in M2?
- Graduate from OSU with any other major?
- Not graduate from OSU?

And if that were true, how many hours per week do you think you would study for your classes next semester (including homework and reading for class)?

You originally guessed that you would study  $H$  hours per week.

Suppose you graduated with a major in  $M1$ , but then learned that you would have to enter an occupation OTHER THAN being a  $C$ . Which of these would best describe how you would feel?

- I would regret having majored in  $M1$
- I would still be perfectly happy having majored in  $M1$

We are now going to ask you to think of and then answer questions about three people in your life whom you might consider role models. These should be people whom you might turn to for advice about choosing your college major or other aspects of planning for your schooling and eventual career.

[Looping through 3 people]

Think about the [first/second/third] person you might turn to for advice. How would you describe your relationship with this person?

- Parent/guardian
- sibling
- Friend of parent/guardian
- Classmate
- Other friend
- Other relative
- Other

What is the highest amount of education that this person has?

- Less than high school
- High school degree
- Some college
- Four-year college degree
- Graduate school degree

What is this person's gender?

- Male
- Female
- Other
- Prefer not to answer

Which of the following categories describes this person (select all that apply)?

- Black or African American
- American Indian or Alaska Native
- Asian
- Native Hawaiian or Pacific Islander
- Hispanic
- Other (please specify)
- Prefer not to say

[If applicable:]

What did this person study in college? Please make your best guess.

[Same list of major groups as elsewhere in survey, plus "I have no idea"]

What occupation does this person currently have?

[Same 9 careers plus other and not working as elsewhere in survey]

Which of the following resources have you used to learn more about majors or about jobs?

- Personal friends
- Family members
- Academic advisors
- Professors or teachers
- Internet articles
- Other (please specify)
- None

Please rank the resources you selected by how much you have relied on them. You can do so by dragging and dropping them, where a ranking of "1" (at the top of the list) means you relied on it the most.

[Options that the student selected in the previous question]

We're trying to learn what additional information students feel they need to help choose which major to pursue.

Which of the following pieces of information would you find helpful? Please select all that apply.

- Salaries for different majors/jobs
- Survey information about how enjoyable majors are
- Survey information about how difficult majors are
- GPA information for students in different majors
- What jobs people with different majors pursue
- What majors tend to lead to students dropping out of school
- Survey information about job satisfaction for different jobs/majors
- Number of hours per week that people with different jobs or majors work

Please rate how helpful you think each type of information would be to you. You can do so by dragging the sliders below, where a rating of "0" means completely unhelpful and "100" means extremely helpful.

[Options the respondent selected in the previous question]

What is your gender?

- Male
- Female
- Other
- Prefer not to answer

Which of the following categories describes you (select all that apply)?

- Black or African American
- American Indian or Alaska Native
- Asian
- Native Hawaiian or Pacific Islander
- Hispanic
- Other (please specify)
- Prefer not to say

What is the highest level of education that either of your parents' or guardians achieved?

- Less than high school degree
- High school degree or GED
- Some college, but no degree
- 2-year college degree
- 4-year college degree
- Any post-graduate degree
- I don't know

What is your family's household income each year? Please give your best estimate.

- \$0-\$9,999
- \$10,000-\$14,999
- \$15,000-\$19,999
- \$20,000-\$29,999
- \$30,000-\$39,999
- \$40,000-\$49,999
- \$50,000-\$69,999
- \$70,000-\$89,999
- \$90,000-\$109,999
- \$110,000-\$149,999
- \$150,000-\$199,999
- More than \$200,000

Are you a transfer student, or is this your first time attending college?

- I transferred to Ohio State from a different college or university
- This is my first time attending college
- Other (please specify)

Thanks for all your answers! We have a few final questions.

How clear were the questions in this survey?

- Very clear
- Moderately clear
- Moderately confusing
- Very confusing

[If applicable:]

Which part(s) of the survey did you find confusing?

Were there majors you are strongly considering that were not among the groups the survey asked about?

- No
- Yes (please specify)

Were there careers you are strongly considering that were not among the groups the survey asked about?

- No
- Yes (please specify)

Did you notice any questions that seemed to have unintended blanks or missing words?

- No
- Yes (if so, do you remember which question?)

How annoying did you find it to answer the "percent chance" questions that we asked?  
[scale from 0 to 100]

Putting aside whether you found them annoying to answer, how difficult or confusing did you think it was to answer the "percent chance" questions that we asked?  
[Scale from 0 to 100]

[If answered greater than 50%:]

In your own words, can you elaborate on why you found them difficult to answer?

Did you have any technical problems or notice any glitches while taking the survey?

Any other feedback you'd like to leave?

## Fall 2021 Exploration Survey Round 2

[Note: Some questions were phrased slightly differently if the participant had not previously taken the Round 1 survey. Here we show the wording for students who also took the Round 1 survey.]

Please enter your name and Ohio State email address below.

We will use this information to ensure that you receive credit for taking the survey, so please make sure there are no typos! We will also send a confirmation email to the address below after you've taken the survey so that you know your response was recorded.

Thank you for your interest in taking this survey! How many years old are you?

We appreciate you taking the time to take this survey, which should take around 25 minutes.

We hope to use this survey to continue improving the Exploration program. It is also part of a research study (more details on the next screen) trying to learn more about how students think about their education. Honest and thoughtful answers from you are therefore extremely helpful.

Also, please note that some pages may take a few seconds to load. If so, please do not refresh the page.

[Consent]

We appreciate you again taking the time to take our survey. It should take around 25 minutes.

We hope to use these surveys to continue improving the Exploration program. Honest and thoughtful answers from you are therefore extremely helpful.

Also, please note that some pages may take a few seconds to load. If so, please do not refresh the page.

This is the last survey that will earn you credit in your Exploration Survey course. Before continuing on to the main survey, however, we'd like to ask if we (the researchers, not the Exploration program) can contact you in the future for additional surveys.

These surveys would always be completely optional and would not affect your grades in any way. Instead, we would offer you payment (e.g., Amazon gift cards) in exchange for completing them. You will always be able opt out from such invitations in the future.

Throughout the survey, we will ask you your thoughts and plans about groups of jobs or majors. When we do, they will often appear in blue. This means you can click on it to learn what the group includes.

Here is an example of a button you can click on: "Prime numbers" includes: 1, 2, 3, 5, 7, 11, and so on.

Some of the questions in this survey are identical to the questions that you answered in the first survey. This is because we are interested in how your thinking may have evolved since then. However, to avoid the survey being too repetitive, we are only re-asking a few questions. We really appreciate your patience!

Like in the first survey, we'd like to start by asking you about what college major you think you might pursue. Throughout the survey, we'd like you to be thinking about your "primary" major. That is, even if you think you might have more than one major, please answer the questions assuming you can only choose one.

Please select the two groups of majors below that you think you are most likely to graduate with a major in. As a reminder, you can click each major to learn more details.

Because you listed them as your most likely majors, the rest of the questions in the survey about majors will M2.

What do you think is the percent chance that you will...



- graduate from OSU with a major in M1
- graduate from OSU with a major in M2
- graduate from OSU with any other major?
- not graduate from OSU?

We'd like to know more details about your short-term academic plans. Please list below up to six classes you anticipate taking next semester (i.e., Spring 2022). This can be as precise (e.g., an exact course name and number) or vague (e.g., "some statistics course") as you like. For each line, please select which subject you think the course best fits into.

Of course, you may not know for sure what classes you'll take, so please just enter your best guess as to what your class schedule might look like.

Because most students take fewer than six classes, you do not have to list a class on every line. Instead, you can just write "None" on the left and select "None" from the drop-down menu for that line.

[Separate lines for up to six classes, with dropdown menus allowing students to categorize them into the ten majors or "Other"]

And how certain are you that your class schedule will look like what you wrote above?

[Scale from 0 to 100]

Have you already scheduled your classes (meaning, enrolled in them) for next semester, or not yet?

- I've already scheduled for next semester
- I haven't yet scheduled for next semester

Like in the first survey, we'd now like to ask you some questions about how college majors relate to careers and about how you think your choice of major will affect your future job opportunities.

[cycled through top two majors] We'd [now/next] like to ask you about M.

What is your best guess about the percent of 35-year old Americans (note, not just from Exploration or OSU) who graduated with a major in M that are...

- Doctor
- Lawyer or Judge
- Engineer or Computer Scientist
- Business Person
- Health Care Worker (non-doctor)
- Teacher
- Artist or Entertainer
- Social Worker or Counselor
- Journalist or Writer
- Working in any other job?
- Not working for pay (e.g., unemployed or a full-time parent)?

And on a scale between 0 (completely uncertain) and 100 (completely certain), how confident are you that the answers above are close to correct?

Now imagine that you successfully graduate from OSU with a major in M.

What is your best guess about the percent chance that, when you are 35 years old, you would be...

- Doctor
- Lawyer or Judge
- Engineer or Computer Scientist
- Business Person
- Health Care Worker (non-doctor)
- Teacher
- Artist or Entertainer
- Social Worker or Counselor
- Journalist or Writer
- Working in any other job?
- Not working for pay (e.g., unemployed or a full-time parent)?

## Treatment Group

Thanks for your answers! We'd now like to share with you the right answers to some of the questions you just answered. You expressed in the previous survey that learning more about what jobs people with different majors have would be helpful as you choose what major to pursue yourself, and we've found that many students lack this information.

To do so, we crunched the numbers to figure out how often American college graduates with various majors end up in certain jobs. This information comes from government data collected by the US census that is representative of the whole country. The data we are going to show you are of people aged 33 to 37 between 2016 and 2018.

You'll have a chance to explore this data yourself later in the survey, but first we'd like to walk you through some headline numbers.

Just to check you understand, where is the information we are going to show you from?

- US government census data
- Internet article
- A survey we conducted ourselves

[Have to answer correctly to proceed]

Great, let's get started! We'll start by telling you about M1 and M2, because you indicated these were the fields you were most likely to major in.

We'll then let you explore other majors, if you want.

[Loops through top two majors]

Let's [first/next] talk about M.

[Loop through 2 careers student said they were most likely to have with M if the stereotypical careers was among those two. If not, loop through those two careers plus the stereotypical career.]

You said P% of M majors become C.

In fact, the Census data show that Q% do, meaning that [you underestimated/you overestimated/you were about correct about] the share of M majors that are working as Cs.

Please type in the true answer below. When you type, the corresponding share of boxes will change color to help you visualize your answer, where each box represents one percent.

The previous pages showed you the right answers for what jobs M majors become, for a few specific groups of careers. So you get the whole picture, we'd now like to show you all careers.

We'll start by showing you a chart that depicts the share of M majors who enter each group of jobs.

After that, we'll let you dive into these groups in more detail to see specific jobs within them.

How to learn more from this chart: Hover over a box to see the name of the job group and the share of M majors with that job

You can also click on the names of job groups in the legend at the bottom to highlight it in the chart.

[Chart here]

Spend some time exploring this chart. Use your mouse to hover over a box that's too small to have a label on it and type in the percent of M majors with that job. Enter the info below, just to make sure you got it.

In your own words, did you learn anything interesting from this chart? Was anything surprising?

The previous chart showed you the share of M majors who enter each group of jobs.

We'd next like to show you a similar chart, but this time breaking down these groups into specific jobs. This can look a little overwhelming, but hopefully it'll help you dive into groups in more detail or learn about a particular job you're especially interested in.

How to learn more from this chart: Hover over a box to see the name of the job and the share of M majors with that job.

You can also click on the names of job groups in the legend at the bottom to highlight it in the chart.

If you want to zoom in on a group of jobs, click on [image of button] and then hover over the group's name in the legend at the bottom. Then just click [image of button]

To go back to the original chart, click [image of button] at the bottom right.

[detailed chart here]

Spend some time exploring this chart. Zoom into a job group of your choice (see above for instructions about how to do this) and choose a job within that group. Enter its info below, just to make sure you got it.

In your own words, what if anything surprised you most about this chart? Did it make you think you would be more or less likely to get a particular job if you majored in M? It's perfectly fine if the answer is "no"—we just want your honest opinion.

To be more precise, again imagine that you successfully graduate from OSU with a major in M.

What is your best guess about the percent chance that, when you are 35 years old, you would be...

rs looping through

- Working in any other job?
- Not working for pay (e.g., unemployed or a full-time parent)?

Does this information make M seem like a more or less attractive major for you? Or, did it not really change your opinion at all?

Thanks for paying attention to all the information! Before moving onto the next part of the survey, we'd like to ask you a few questions that will help us to improve this part of the survey for future students.

We'd like to see whether several of the headline numbers we showed you were memorable.

Think back to the information we showed you about M majors. What percent of 35-year old Americans (note, not just from Exploration or OSU) who graduated with a major in M are...

[If applicable:]

Oops! Looks like one or more of your answers was pretty far from correct. Please try again, where now the correct answers appear in gray (you will still need to type them in).

What percent of 35-year old Americans (note, not just from Exploration or OSU) who graduated with a major in M are...

We decided to show you information about M1 and M2, because you indicated that these were the fields you were most likely to major in. However, we made similar charts for all 10 groups of majors, plus one depicting all college graduates regardless of their major. If you'd like, you can explore these charts as well.

Do you want to see a similar chart for another major? If so, please choose which one. Otherwise, choose "No, thanks"

[If they select another major, they only see charts, not extra text and questions.]

## Control Group

We'd now like to ask you some questions about the classes you're taking this semester. Please list below up to six classes you are taking this semester other than your Exploration Survey course.

Please be detailed enough when listing them that you will recognize them when we later ask questions. For example, if you are taking two economics classes, you might want to list them as "microeconomics" and "macroeconomics" so that you know which one later questions are referring to.

Because most students take fewer than six classes, you do not have to list a class on every line. Instead, you can just write "None" on the left and select "None" from the drop-down menu for that line.

[List current classes]

[looping through classes, piping in the names of courses that the respondent provided.]  
Let's [first/next] talk about your C course.

Which of the follow reasons describe why you chose to take your C course? Please select all that apply.

- It was a general education requirement
- It was required for a major that I was considering pursuing
- I wanted to learn more about whether I would want to major in that subject
- I thought it would be interesting or fun
- None of the above (please elaborate)

Has your M course so far influenced your opinion about what major you might pursue?

[If applicable:]

Could you describe in your own words how it has influenced your opinion about what major you might pursue?

Has your C course so far influenced your opinion about what career you might pursue?

[If applicable:]

Could you describe in your own words how it has influenced your opinion about what career you might pursue?

Whether or not your C course has influenced your opinion about what career you might pursue, do you think it has helped you build skills that will make you more successful in your career?

[If applicable:]

What skills has your C course helped you build?

How would you rate your C class on each of the following dimensions?

[Sliders for teaching quality, assignment quality, and class content]

Would you recommend your C class to future Exploration students?

[If applicable:]

Why wouldn't you recommend it?

[If applicable:]

Why would you recommend it?

Great! Thanks for all your answers about your classes. We'd now like to ask some questions about what factors are important to you as you decide what major to pursue.

Please rate each factor below on a scale from 0 to 100 according to how important it is to you as you decide your major. A "0" means that it is not important at all, while a "100" means that it is extremely important.

[Sliders for each of the following factors: "Its effect on what job I will get after college", "The difficulty of the classes", "How fun I find the classes/subject matter", "What my family wants me to study", "Whether other students like me are studying the same thing", "Whether many of my friends are studying the same thing"]

Are there factors other than the ones above that are particularly important for you when thinking about what major you'll pursue?

Let's now think about the different career paths you might take.

Please rate each factor below on a scale from 0 to 100 according to how important it is to you that your future job has that characteristic. A "0" means that it is not important at all, while a "100" means that it is extremely important.

[Sliders for each of the following characteristic: "High salary", "Flexible hours", "Being located near where I grew up", "Social impact, or how much it involves helping others", "How prestigious it is", and "Being able to take time off to take care of family".]

Are there factors other than the ones above that are particularly important for you when thinking about what sort of job you will want?

## Both Treatment and Control

Great. Thanks for all your answers! We have some more questions for you, but you are most of the way through the survey.

As always, we appreciate your thoughtful and honest responses.

After thinking about things throughout the course of the survey, we'd like to ask you again about your likely major. It's perfectly fine if your answers don't change compared to before. We just want your honest opinion.

What do you think is the percent chance that you will...

- Graduate from OSU with a major in M1?
- Graduate from OSU with a major in M2?
- Graduate from OSU with any other major?
- Not graduate from OSU?

And what about your classes for next semester? Below, we've put in what subjects you said would take classes in next semester. After thinking things through during the survey, have you changed your mind about what classes you might take? It's perfectly fine if your answers don't change.

Like before, most students take fewer than 6 classes, so you can select "None" on a row to indicate that you don't expect to take that many.

[Can update the major of the classes they listed earlier, including switching to "None"]

We'd now like to ask you a question about annual earnings.

For this question, we'd like you to think about 35-year-old college graduates in the United States (note, not just from Exploration or OSU) who are working for pay.

How much per year do you think the average 35-year old American college graduate earns who majored in...

[Separate sliders for M1 and M2]

Now imagine that you successfully graduate from Ohio State and are working for pay when you are 35 years old.

How much per year do you think you would be earning if you graduated with a major in...

[Separate sliders for M1 and M2]

We'd also like to ask how your thinking has evolved about what career you might have after college, taking into account that you may be unsure about what major you will pursue.

We've put in the answers you gave to this question during the first survey, so that you can consider whether your opinion has changed since then. As always, it's perfectly fine if your answers don't change. We just want your honest opinion.

Imagine that you successfully graduate from OSU. What is your best guess about the percent chance that, when you are 35 years old, you would be...

- Doctor
- Lawyer or Judge
- Engineer or Computer Scientist
- Business Person
- Health Care Worker (non-doctor)
- Teacher
- Artist or Entertainer
- Social Worker or Counselor
- Journalist or Writer
- Working in any other job?
- Not working for pay (e.g., unemployed or a full-time parent)?

We'd now like to ask what career you think you might have after college, taking into account that you may be unsure about what major you will pursue.

Imagine that you successfully graduate from OSU. What is your best guess about the percent chance that, when you are 35 years old, you would be...

- a Doctor
- a Lawyer or Judge
- a Engineer or Computer Scientist
- a Business Person
- a Health Care Worker (non-doctor)
- a Teacher
- an Artist or Entertainer
- a Social Worker or Counselor
- a Journalist or Writer
- Working in any other job?
- Not working for pay (e.g., unemployed or a full-time parent)?

Now we'd like to ask you about your earnings as an adult, again taking into account that you may be unsure of your major and career. Please give your best guess.

How much per year do you think you will earn when you are 35 years old, assuming you are working for pay?

We'd now like to ask you some questions about your background.

First, did you grow up in the United States, or somewhere else? If you've lived both inside and outside the US, please pick whichever option you feel best describes you.

What is the zip code of the place you grew up? If you lived in multiple places in the US, please pick the one you spent the most time in.

What city or town did you grow up in? Please include the state as well (e.g., "Columbus, Ohio").

Thanks for all your answers! We have a few final questions.

How clear were the questions in this survey?

[If applicable: ]

Which part(s) of the survey did you find confusing?

Did you notice any questions that seemed to have unintended blanks or missing words?

- No
- Yes (if so, do you remember which question?)

How annoying did you find it to answer the "percent chance" questions that we asked?  
[scale from 0 to 100]

Putting aside whether you found them annoying to answer, how difficult or confusing did you think it was to answer the "percent chance" questions that we asked?

[Scale from 0 to 100]

[If answered greater than 50%:]

In your own words, can you elaborate on why you found them difficult to answer?

Did you have any technical problems or notice any glitches while taking the survey?

Any other feedback you'd like to leave?