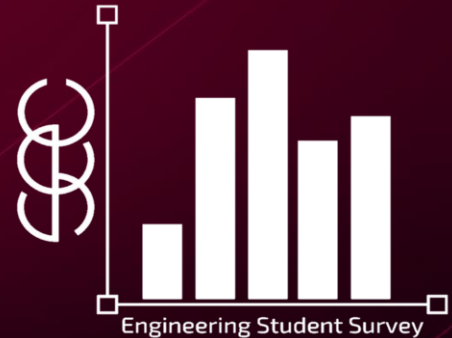
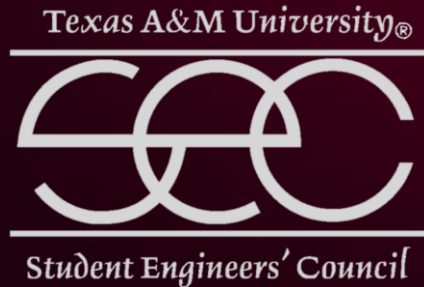


Engineering Student Survey Results Presentation

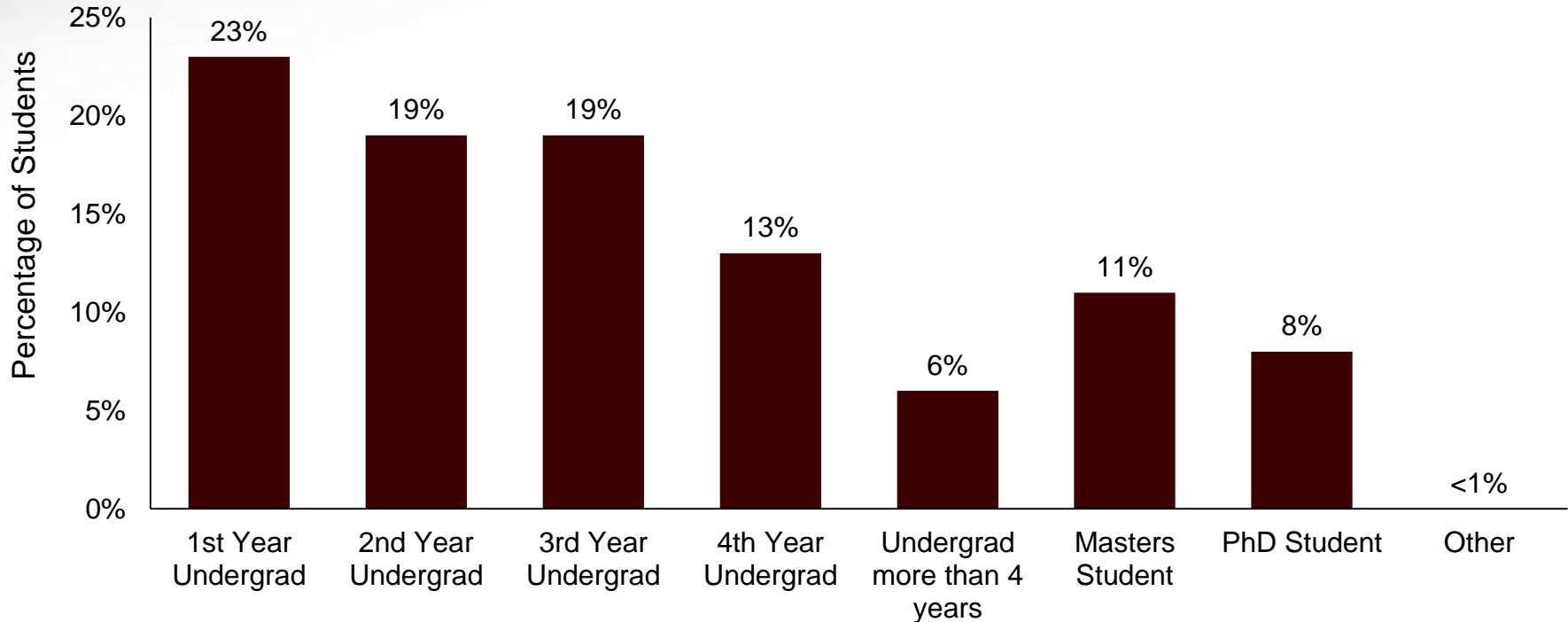
February 2, 2017



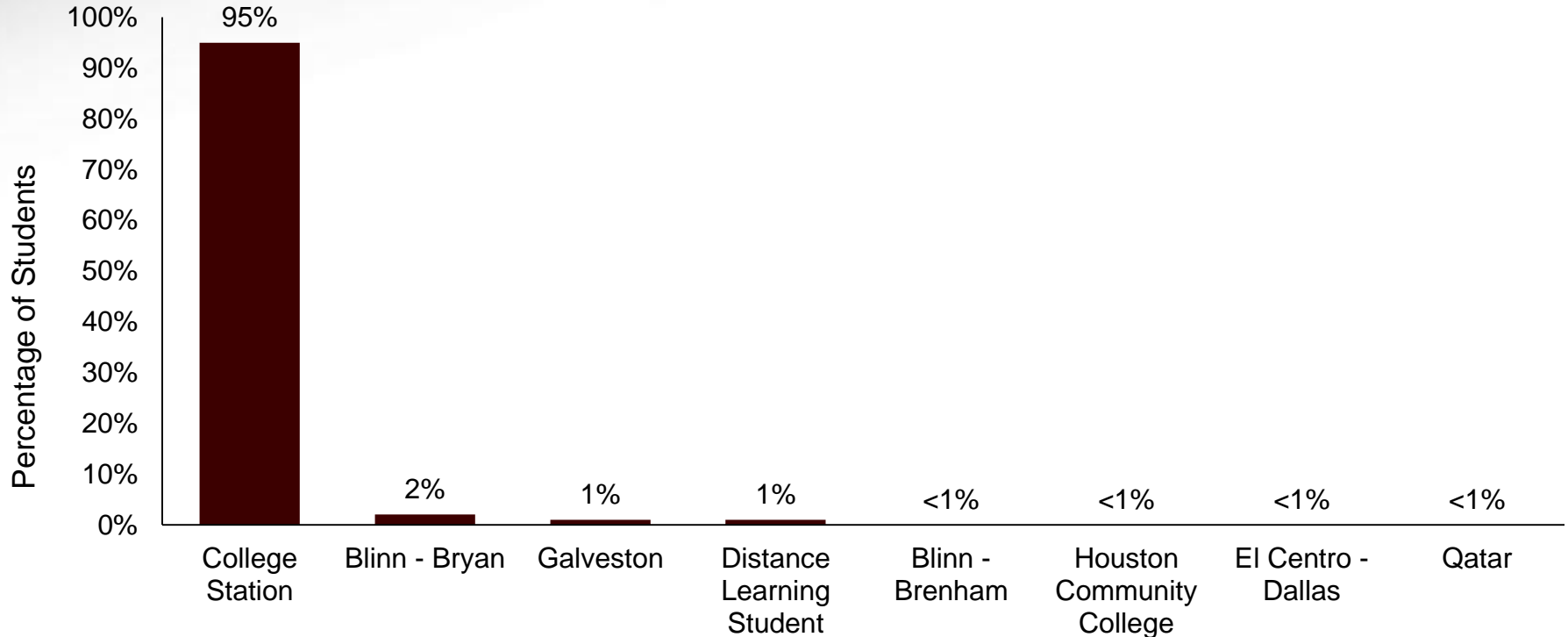
Demographic Questions

Asked to all students

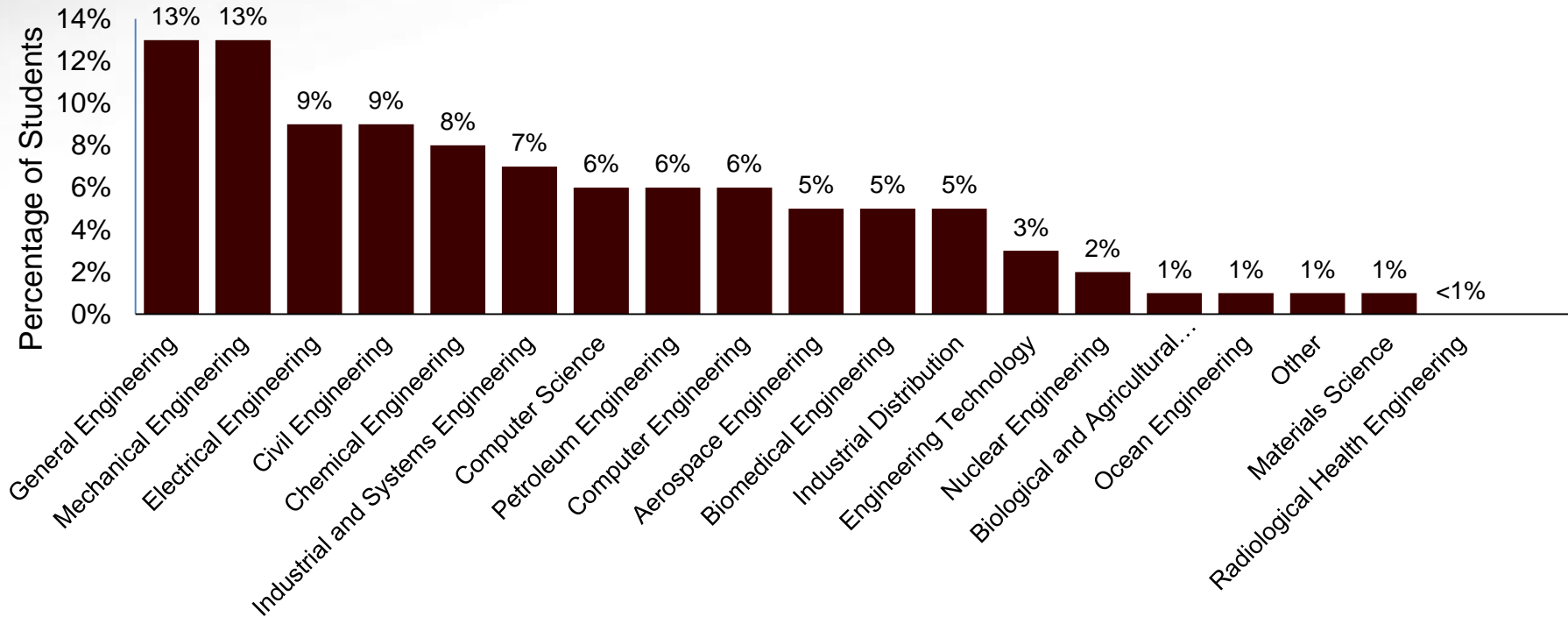
Which of the following most accurately represents your class year at Texas A&M University?



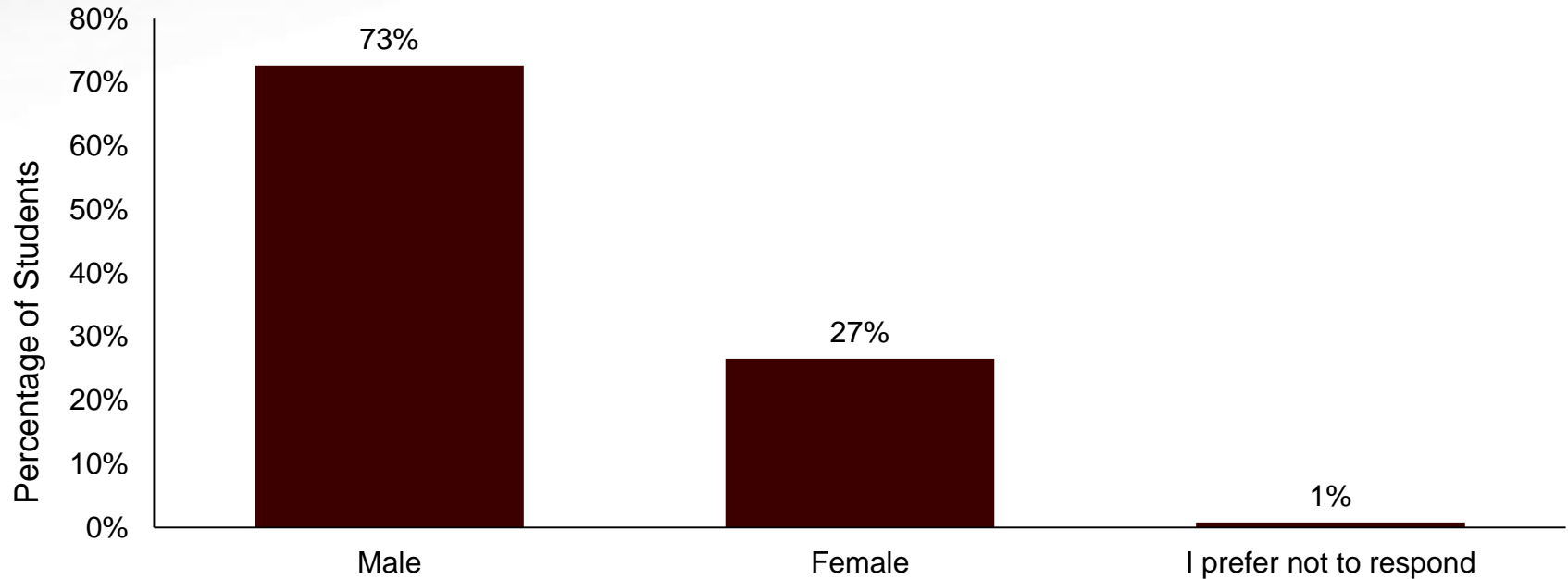
At which campus do you take the majority of your courses?



What is your major?

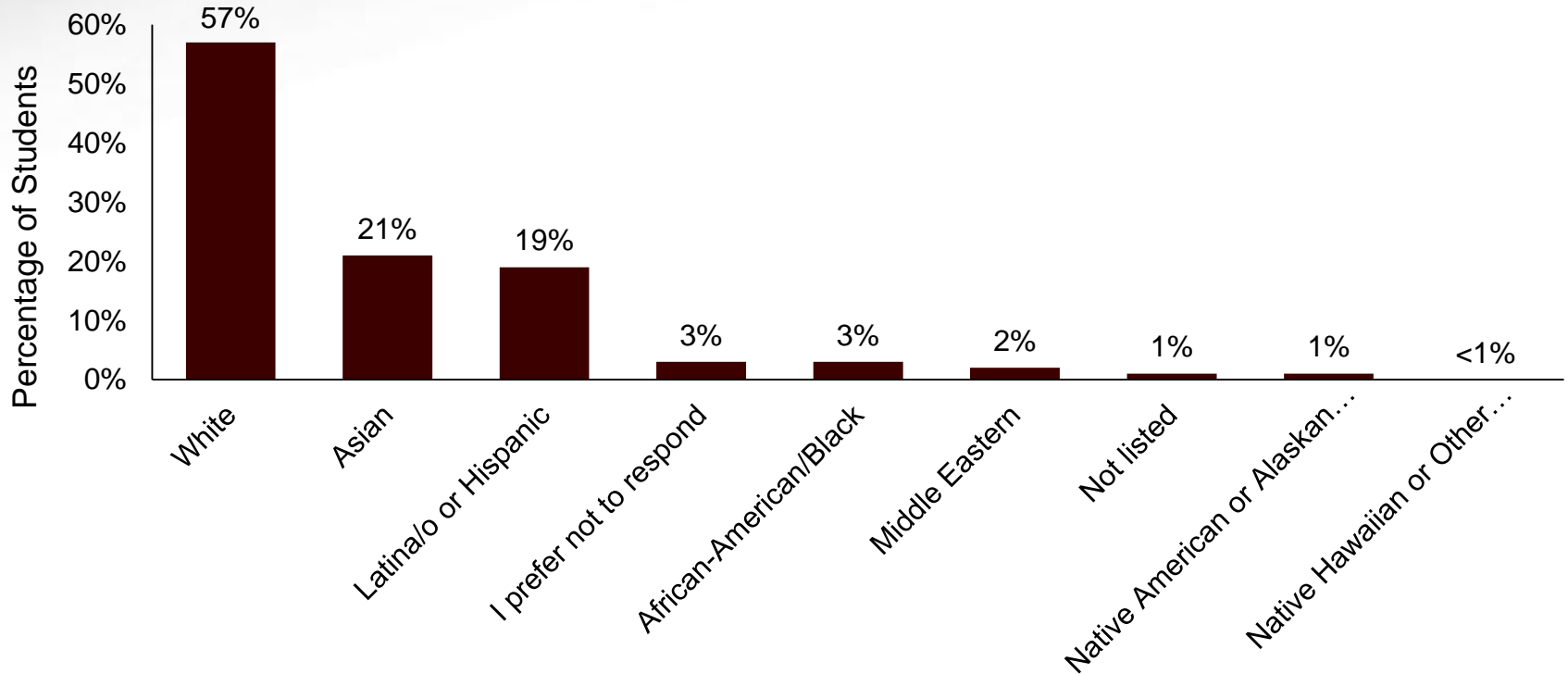


Sex/Gender

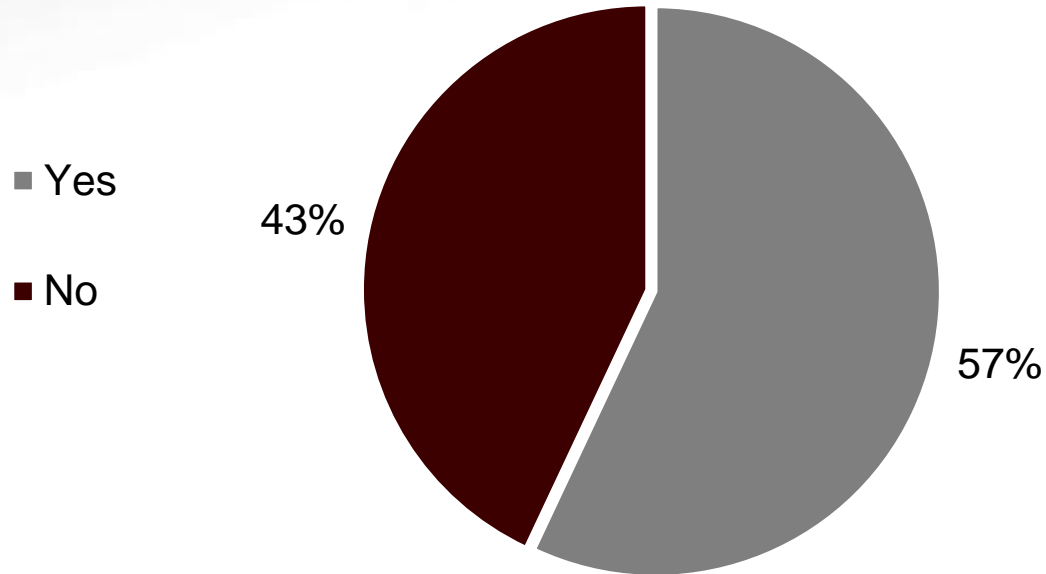




Race/Ethnic Identification

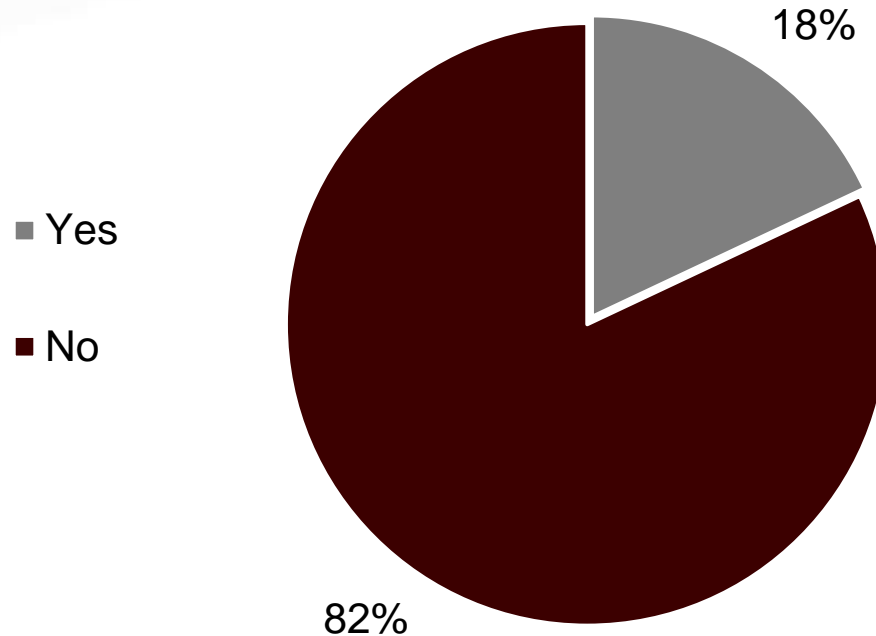


Are you currently enrolled in ENGR 111 or ENGR 112?

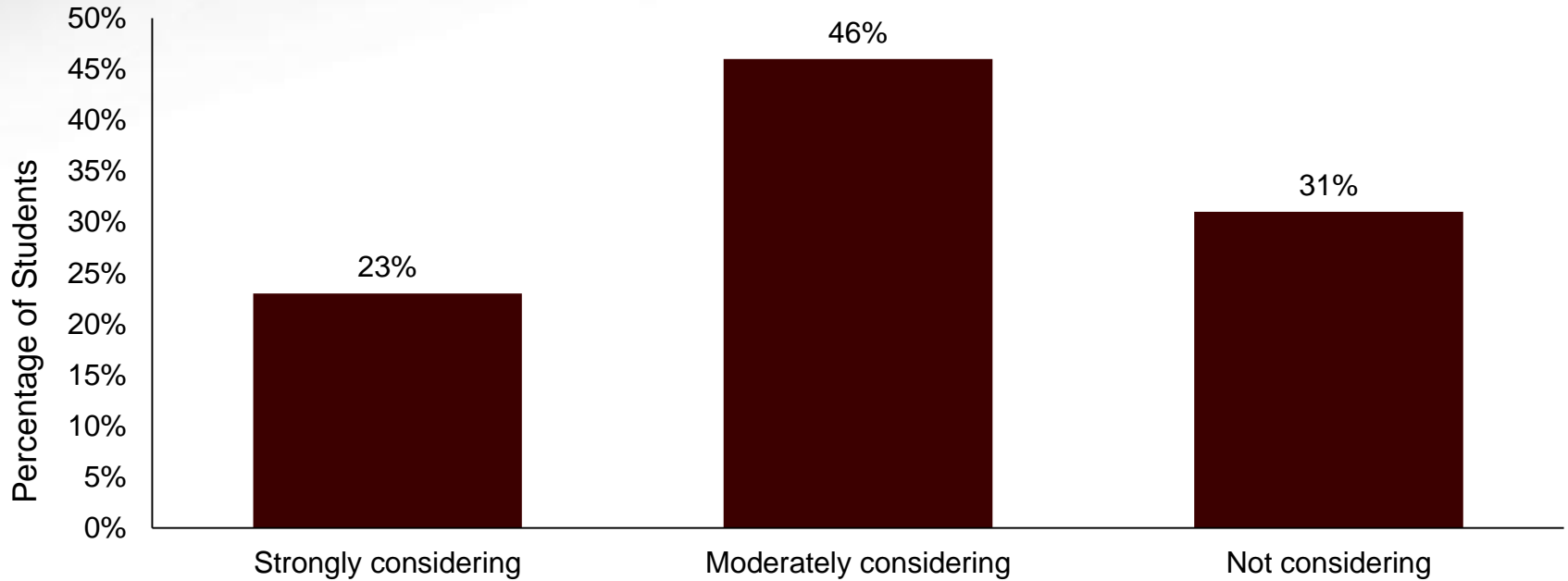


*Asked only to 1st and 2nd year undergraduates.

Are you graduating in December 2016 or May 2017?



How strongly are you considering graduate school?

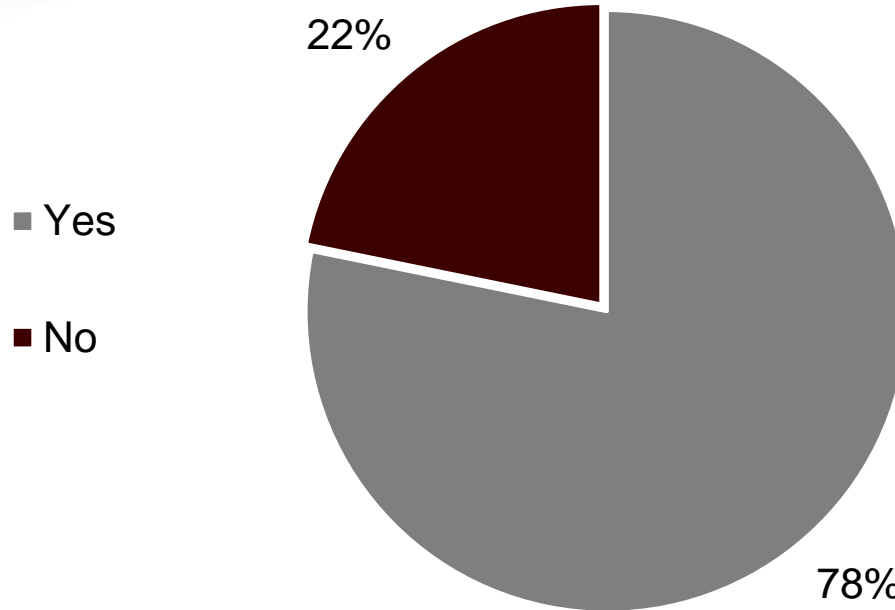


*Asked only to undergraduate students.

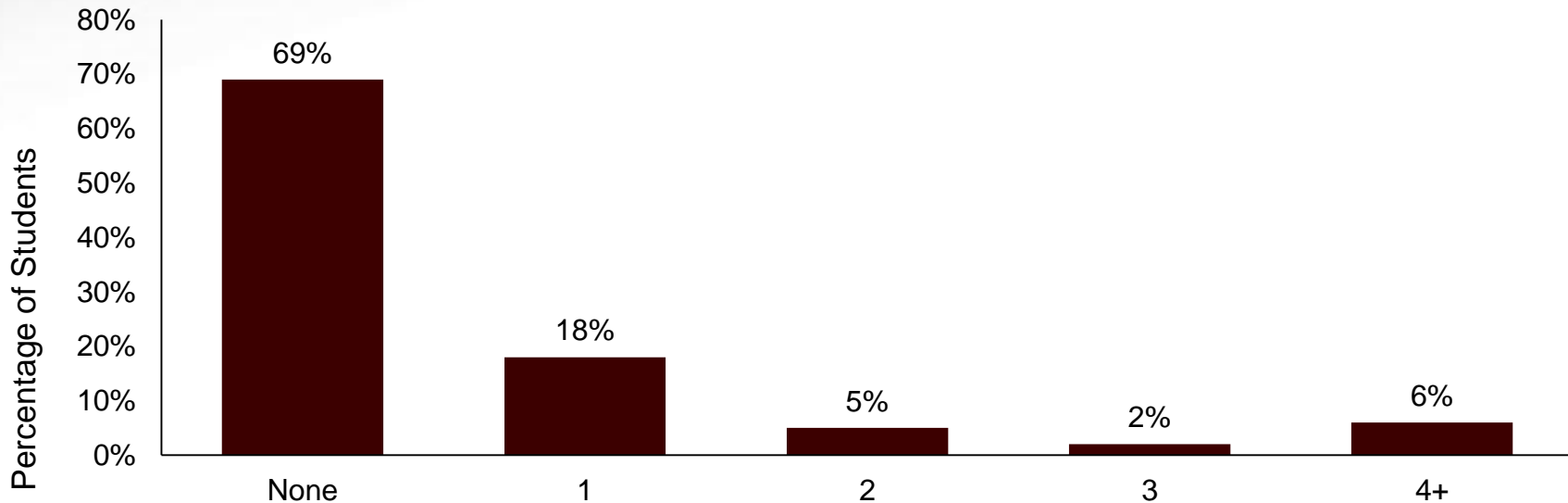
Global Competence Questions

Asked to all students

Do you have a passport which enables you to travel outside the United States?

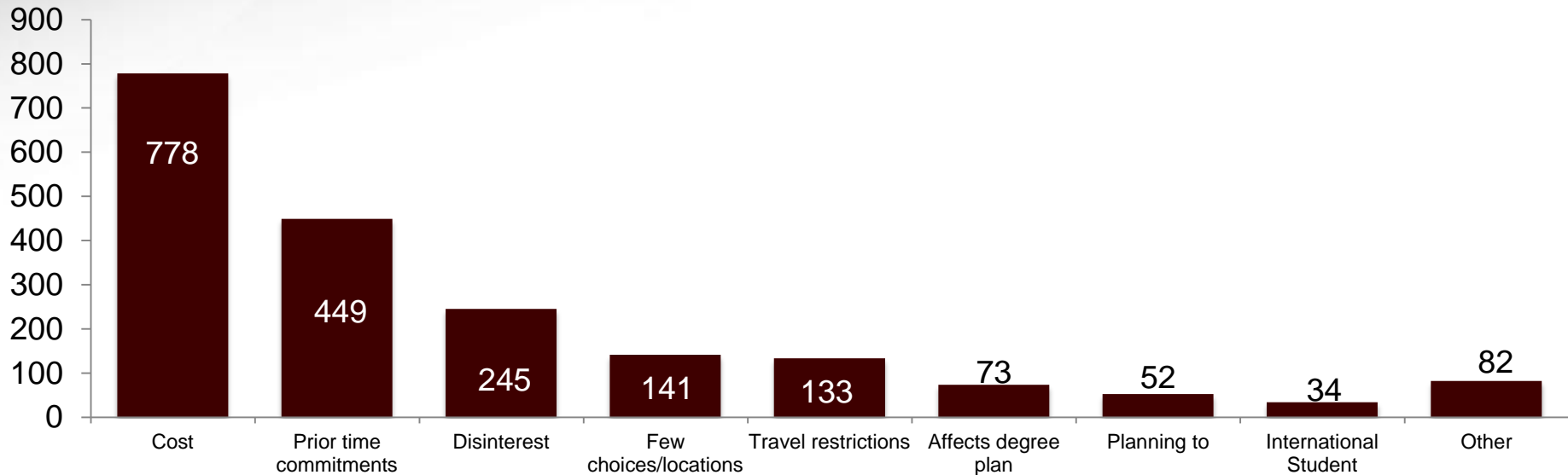


How many learning experiences have you had outside the U.S. while in college?



*Filtered to exclude 1st year undergraduates.

Is there a specific reason why you have had none?



*Asked only to students who chose “None” in the preceding question.

Is there a specific reason why you have had none?

Cost:

- “I could have gotten scholarships, but I would not have been able to pay the upfront fee while I waited for scholarships to process.”

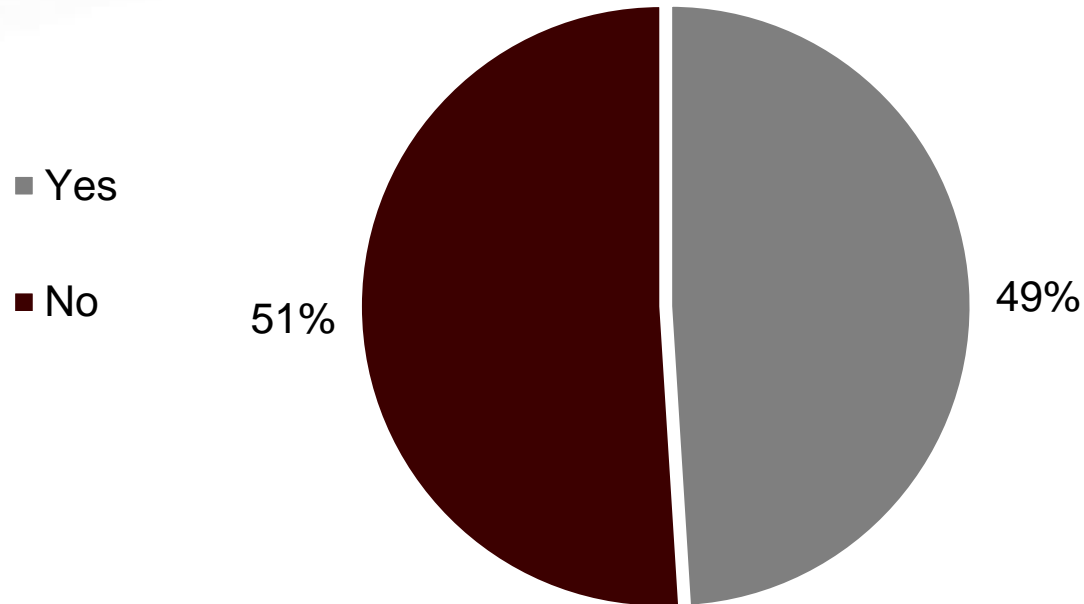
Time commitments:

- “Looking to go, just no chance so far with work and home life balance, along with schoolwork.”

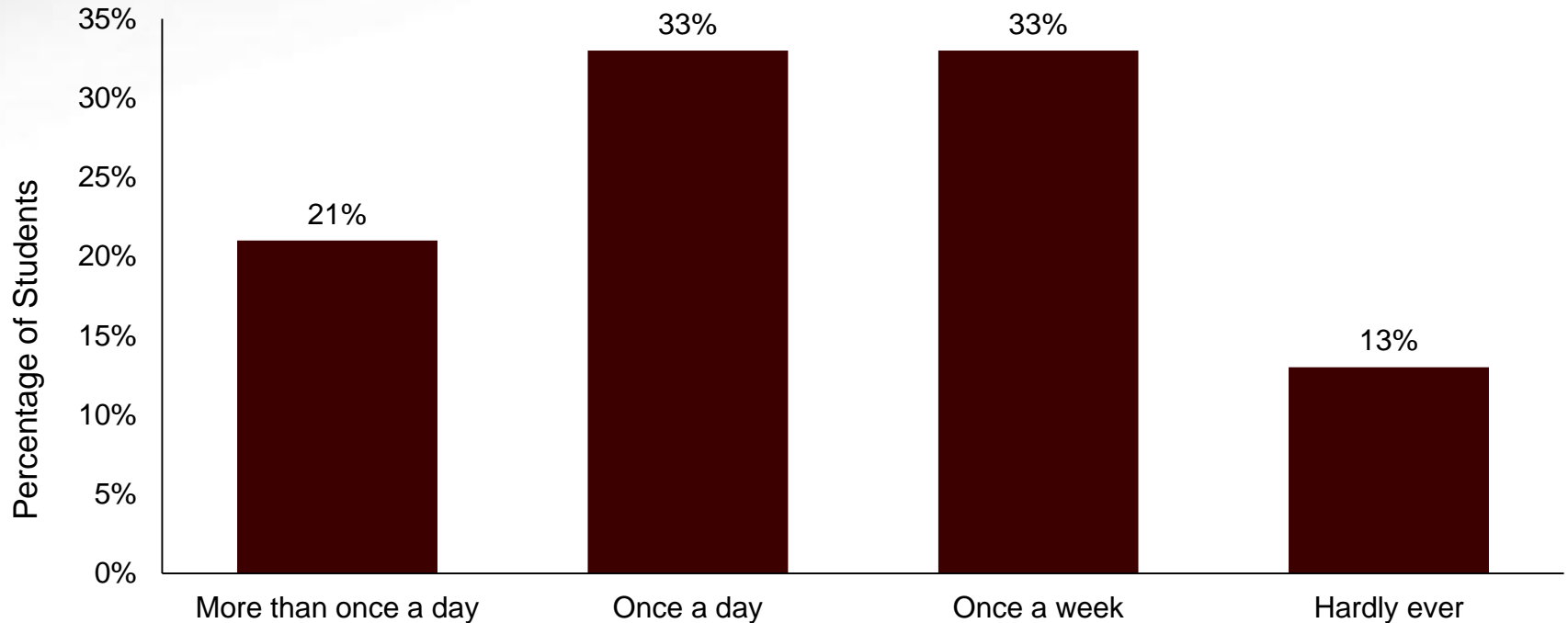
Few choices/locations:

- “No study abroad for aerospace engineering majors that interests and furthers my degree plan.”

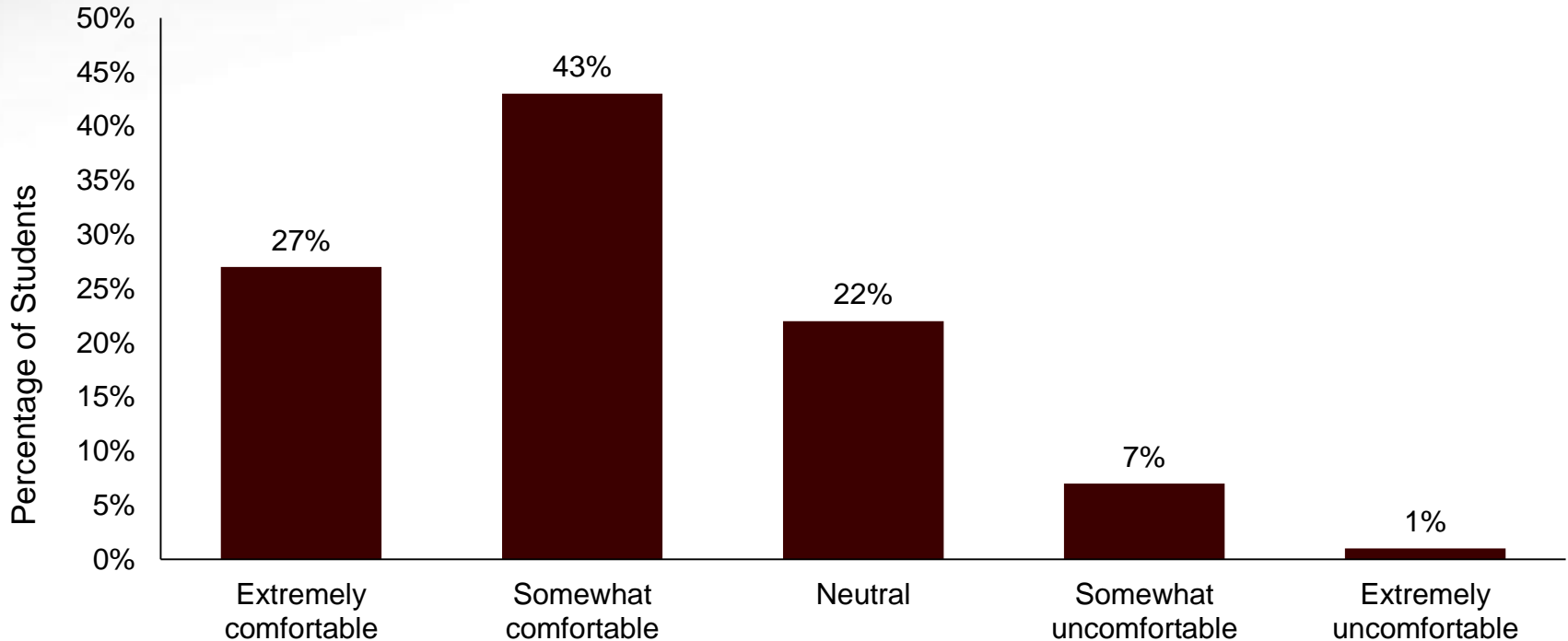
Are you able to communicate in more than one language?



How often do you update yourself on world news?



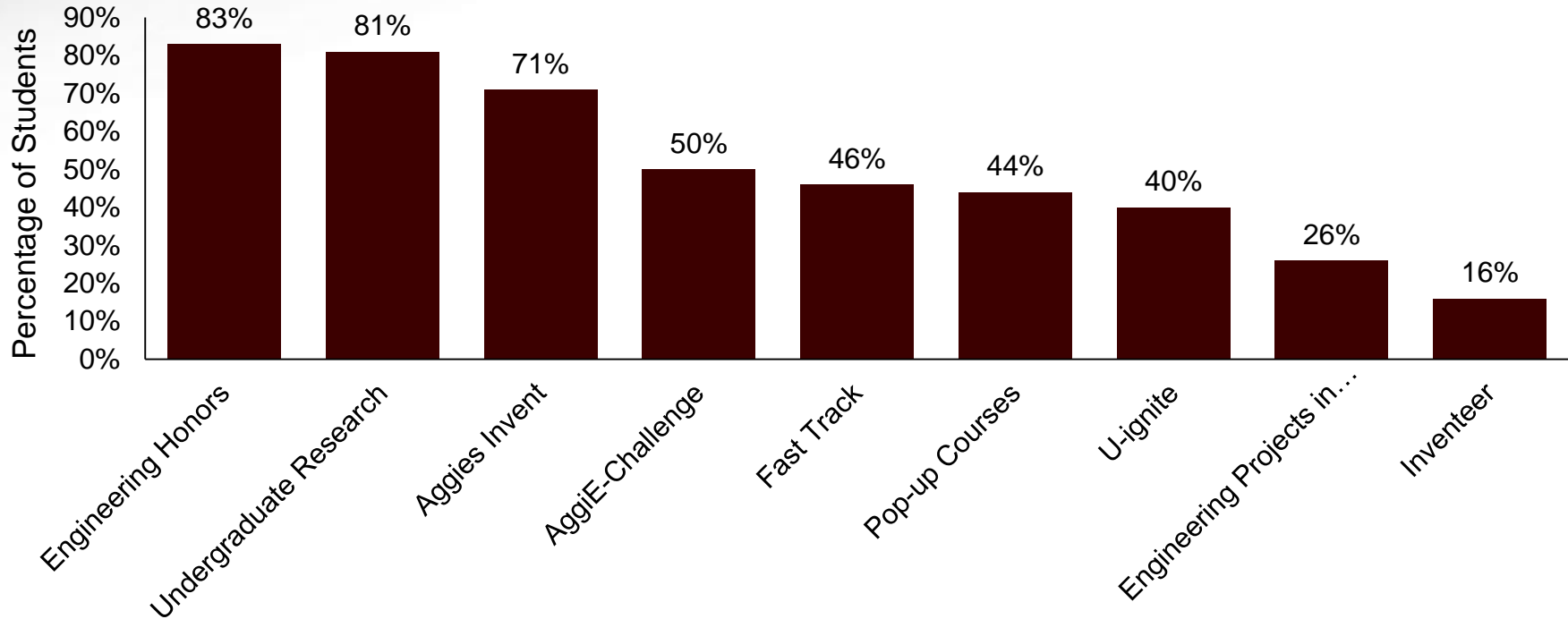
How comfortable do you feel operating in another culture?



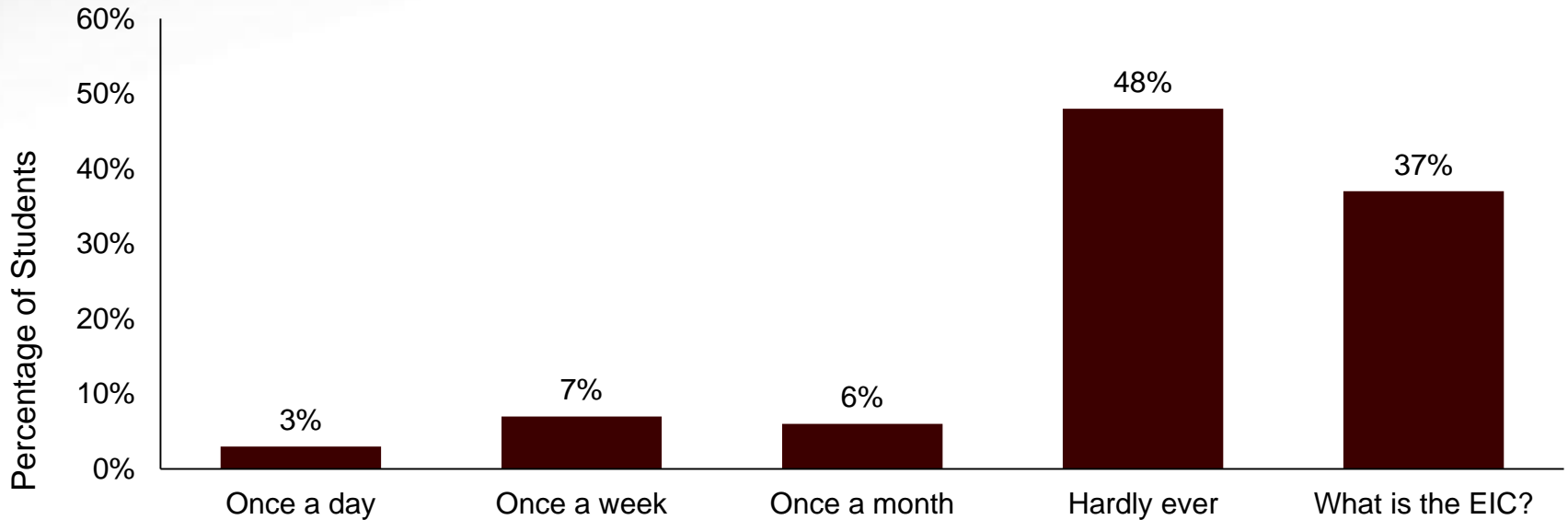
Accessibility of Academic Programs Questions

Asked only to Undergraduates

Are you aware of the following Academic Enrichment Programs?

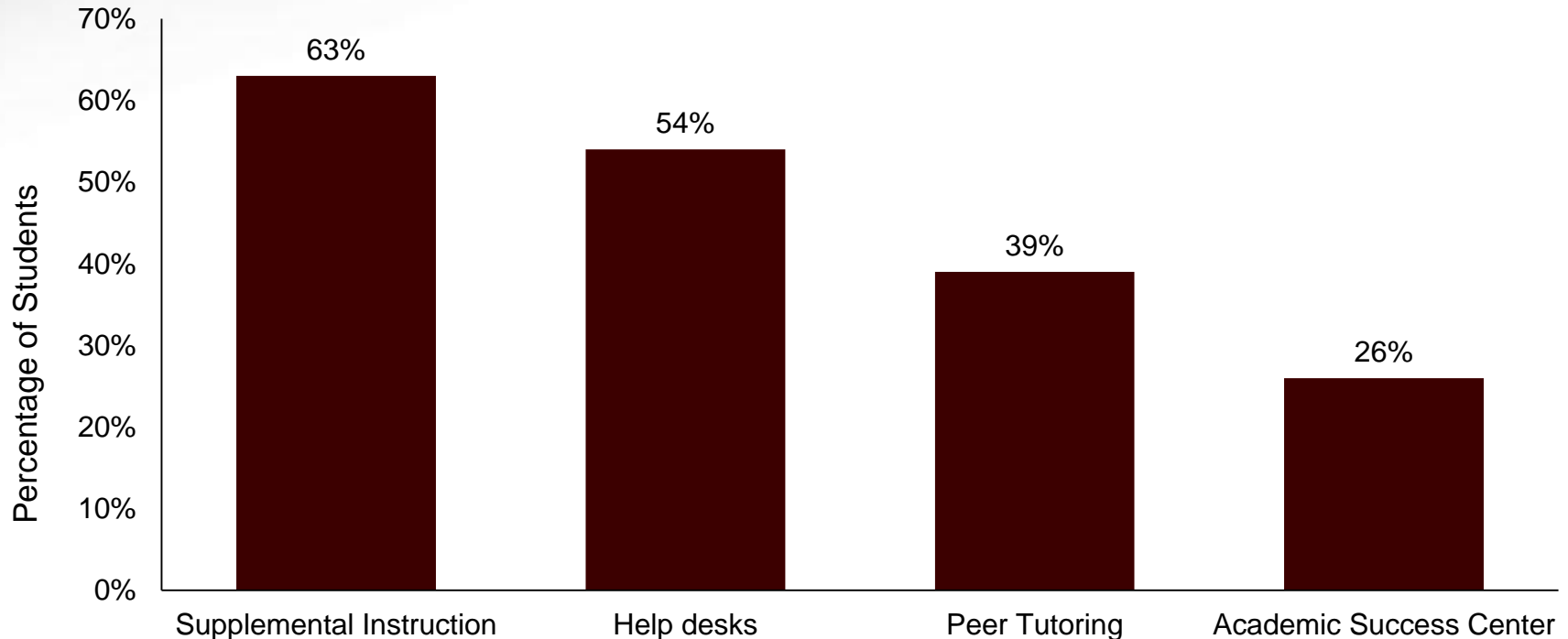


How often do you use the Engineering Innovation Center (EIC)?

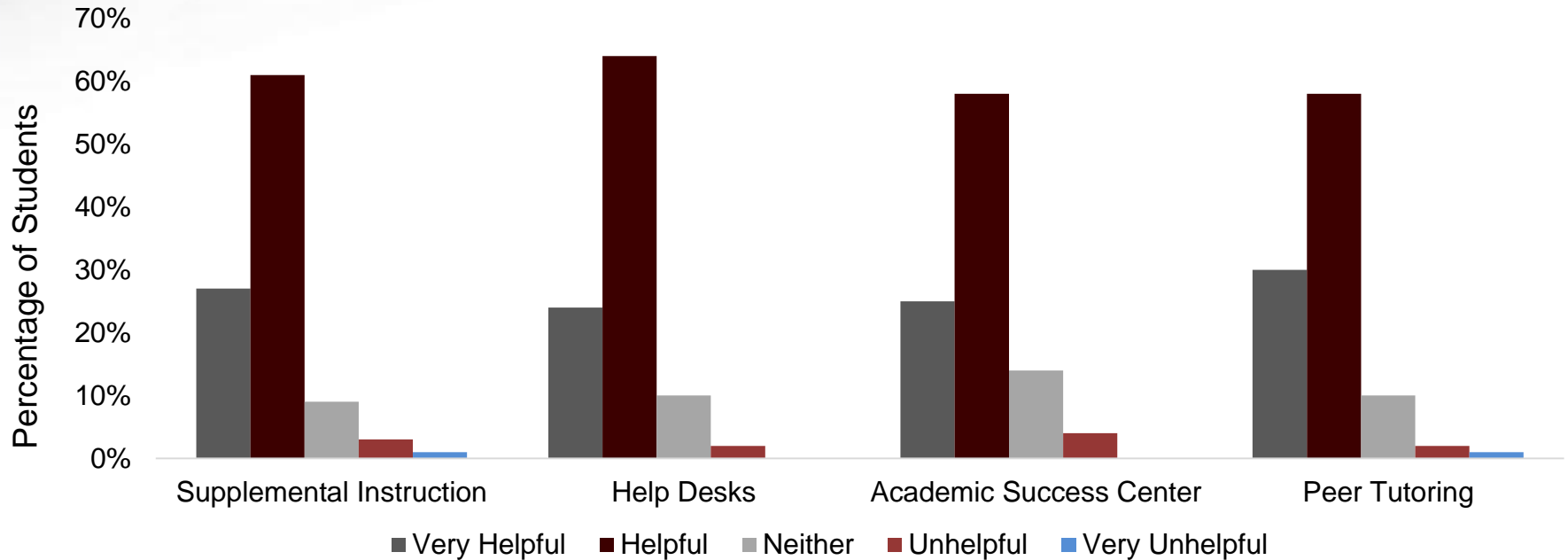


*Filter to include only students on the College Station campus.

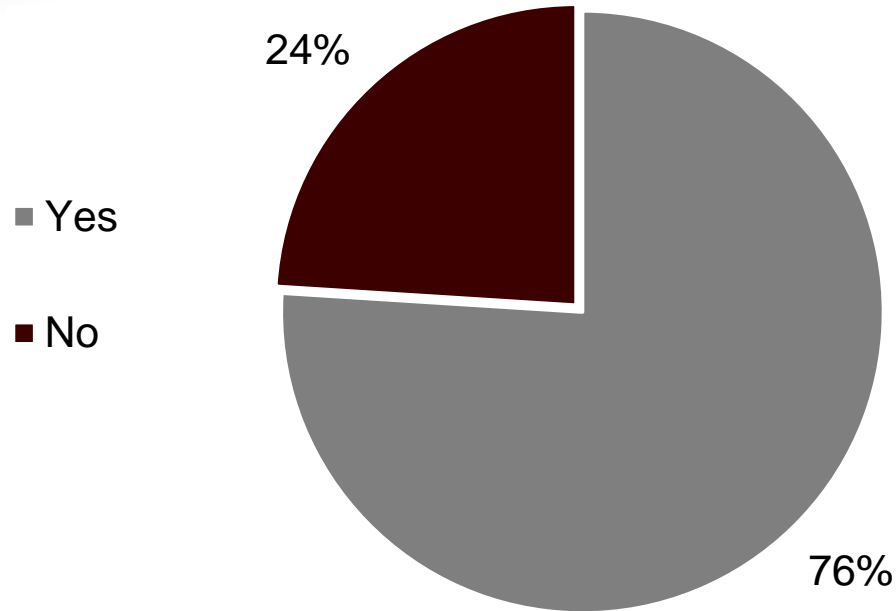
Select the following Academic Support Programs that you have utilized.



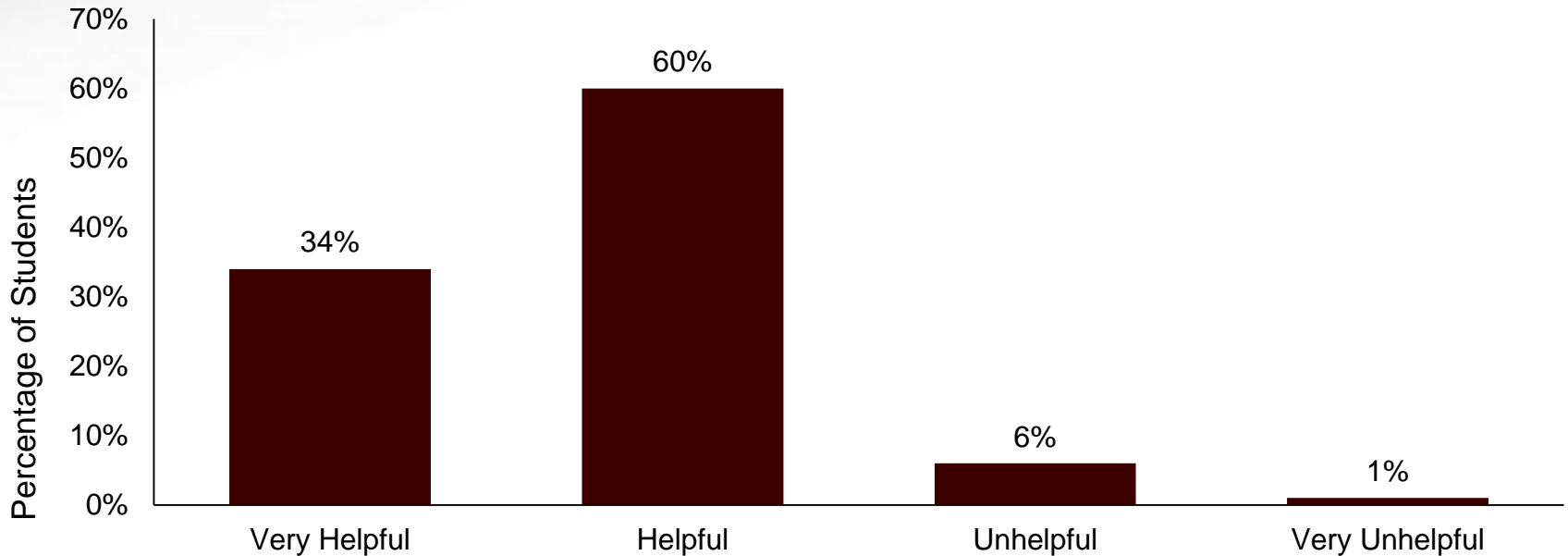
How helpful are the following Academic Support Programs in helping you succeed academically?



Have you gone to see any of your professors outside of class?

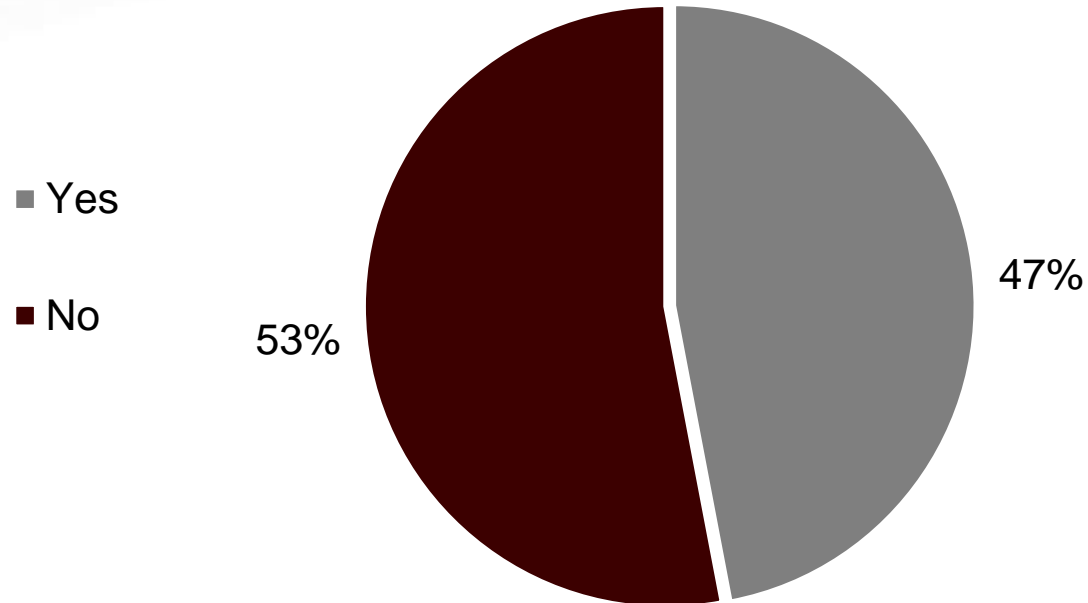


How helpful was your visit(s) with your professor?

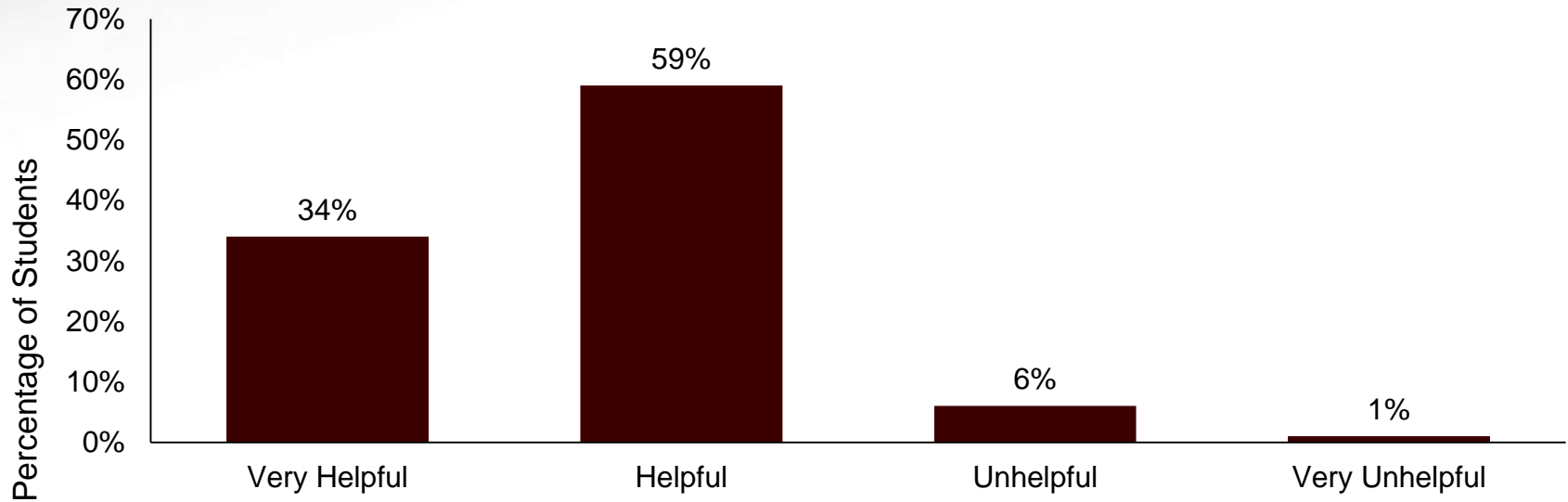


*Asked only to students who chose "yes" in the preceding question.

Have you gone to see your TA outside of class?

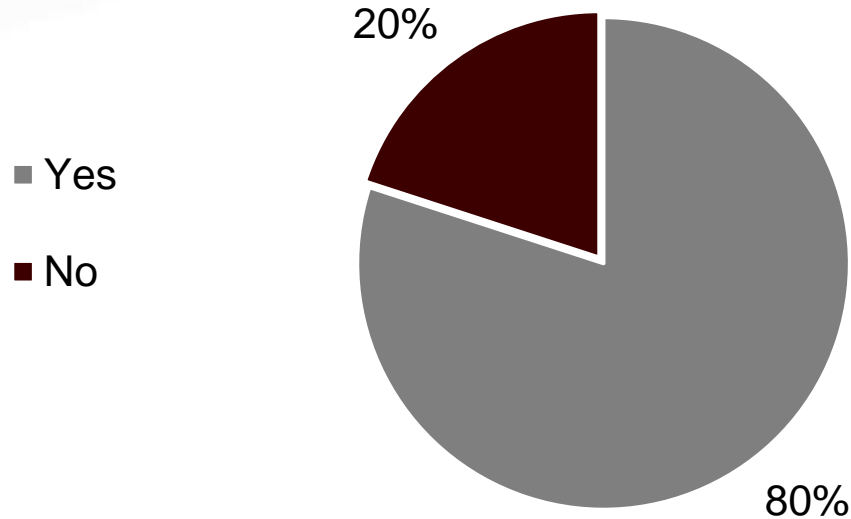


How helpful was your visit(s) with your TA?



*Asked only to students who selected “yes” to the preceding question.

When you registered for Fall 2016, were you able to register for all of the classes you needed?



*Asked to all students, undergraduate and graduate.

Use of Instructional Technology Questions

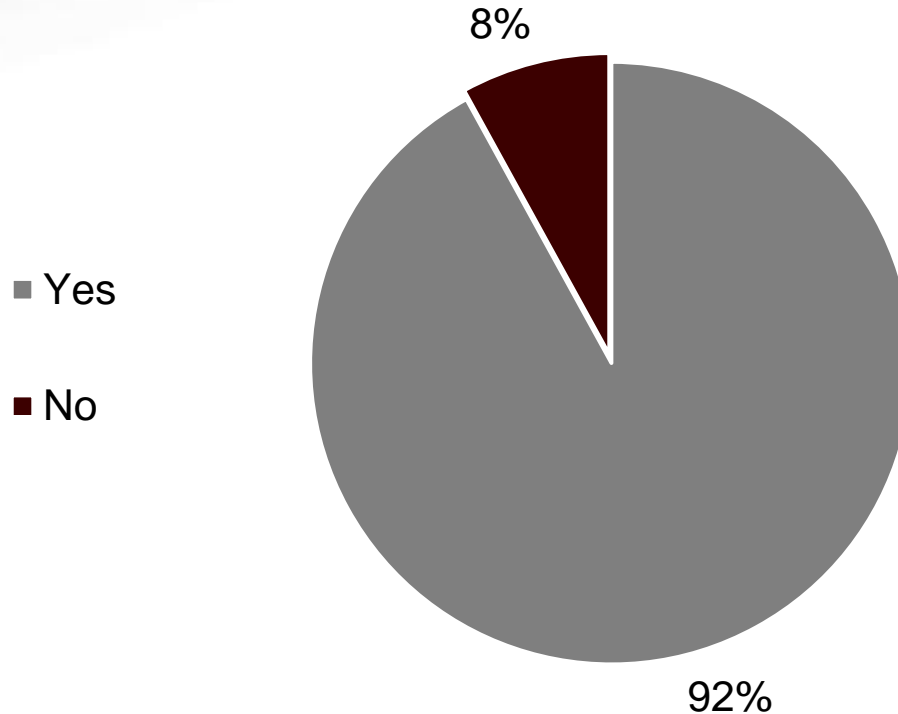
Asked to all students

Instructional Technology Definition

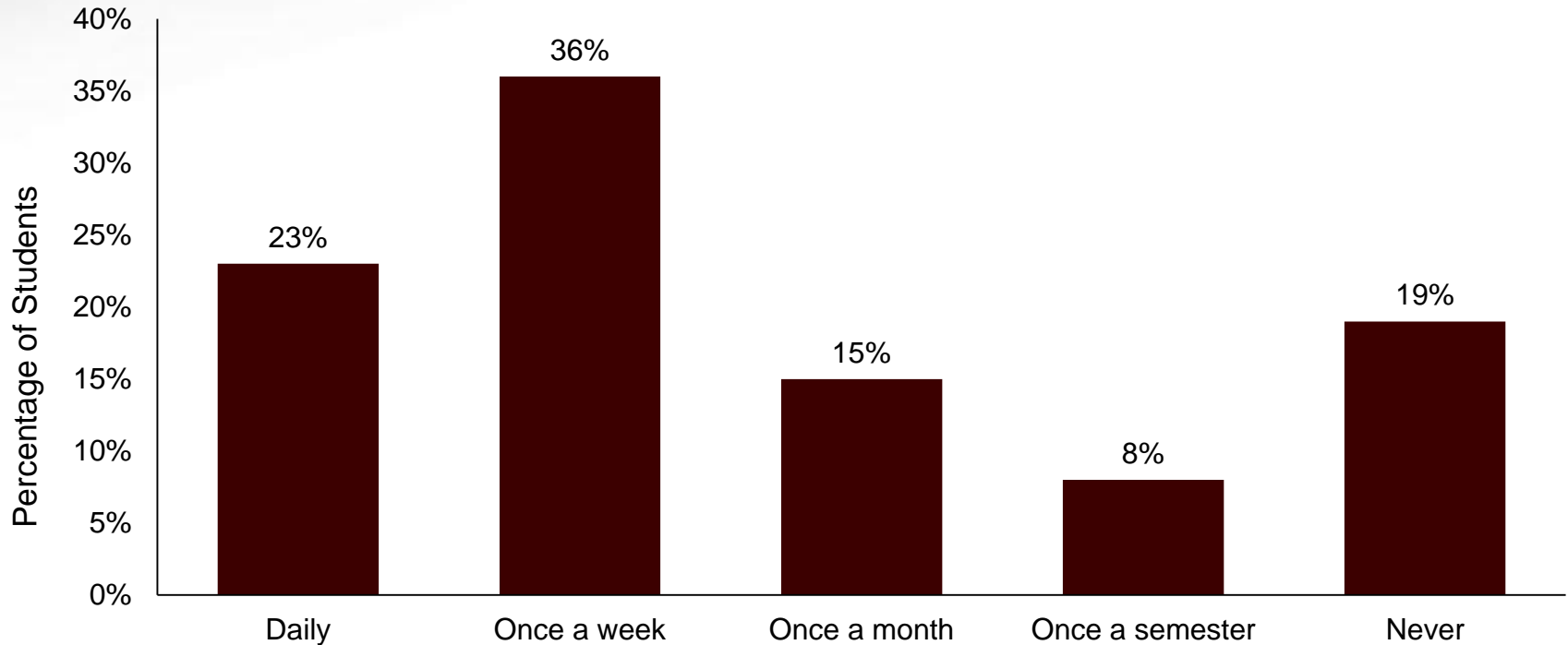
Instructional technology includes (but is not limited to) the following:

- eCampus
- Computer labs
- Smart Podiums (computers with writing capability)
- Technologies that promote student engagement (e.g. iClickers, Learning Catalytics).

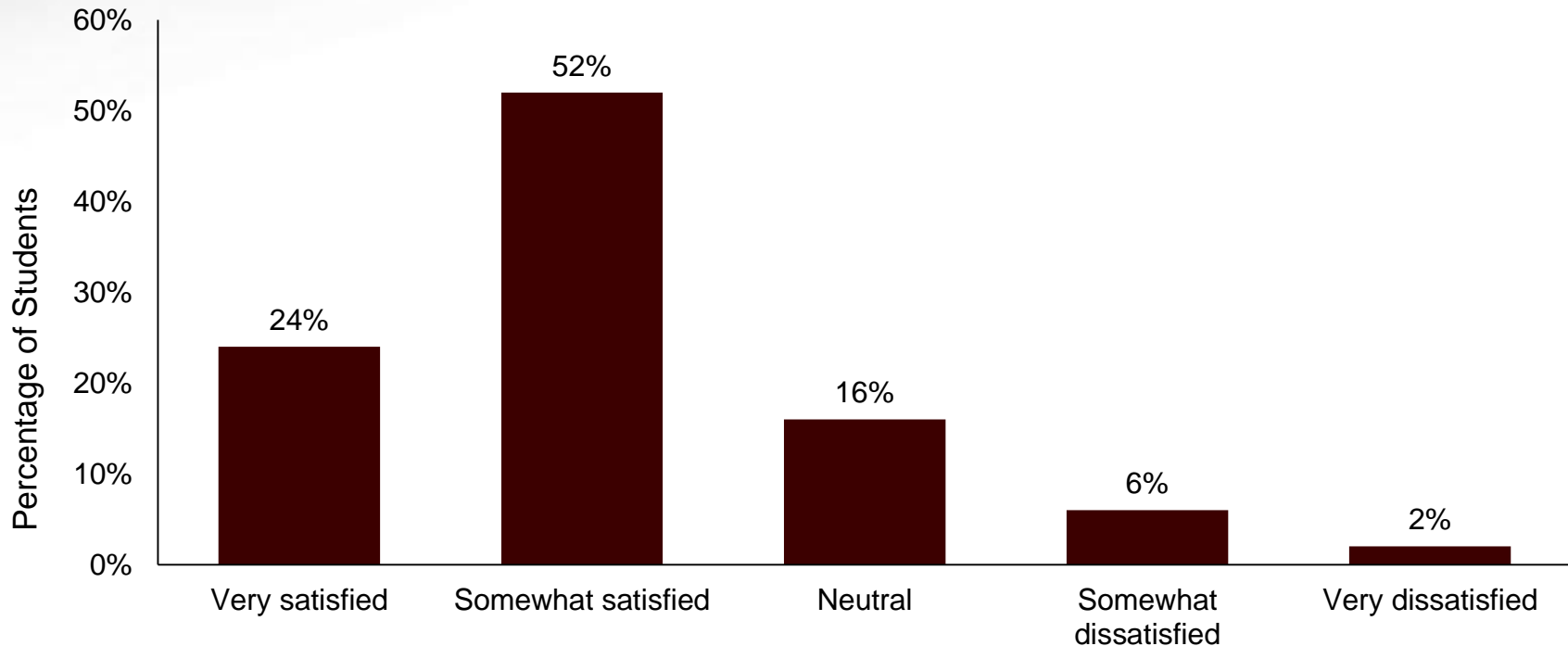
Do your instructors incorporate instructional technology into their courses?



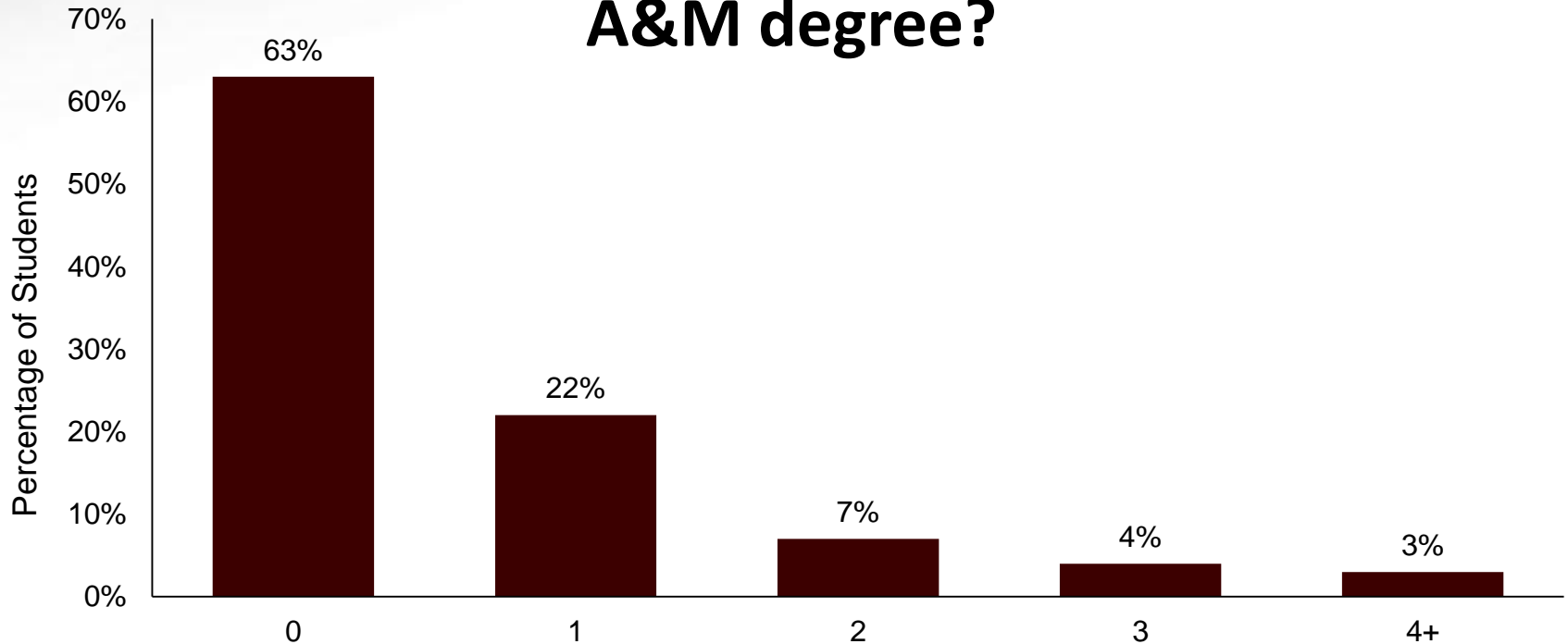
How often do you use the Open Access Computer Labs on campus?



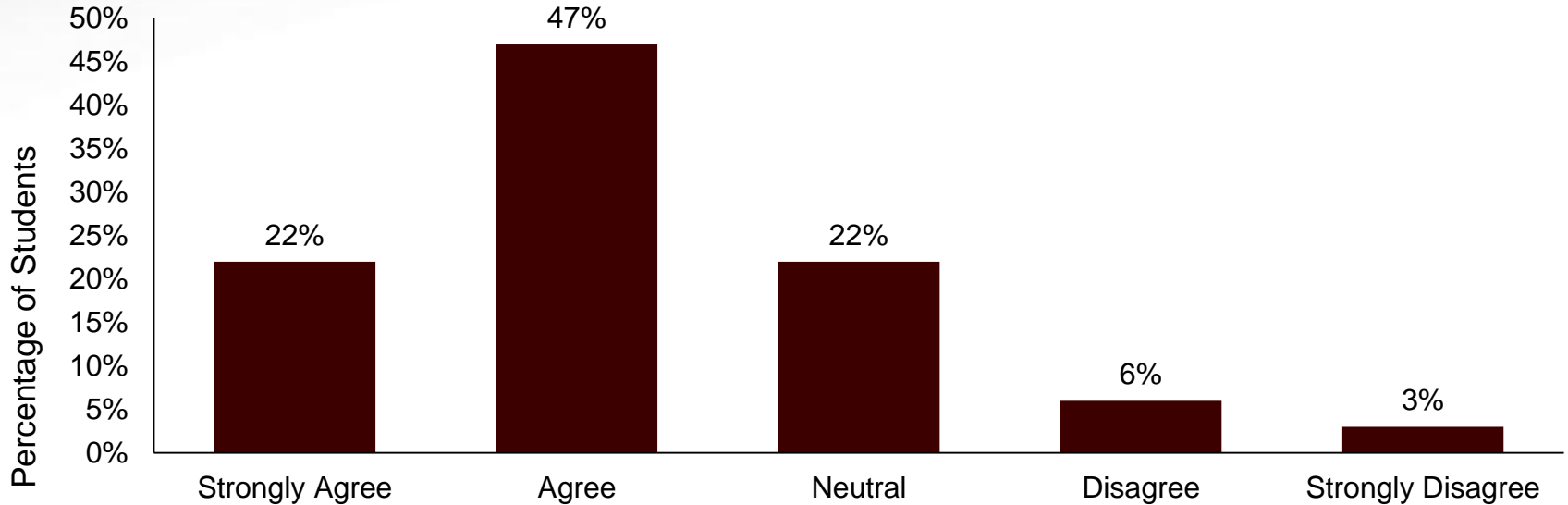
How would you rate your experience with eCampus?



How many online courses are you taking, or have taken, at Texas A&M while obtaining your Texas A&M degree?

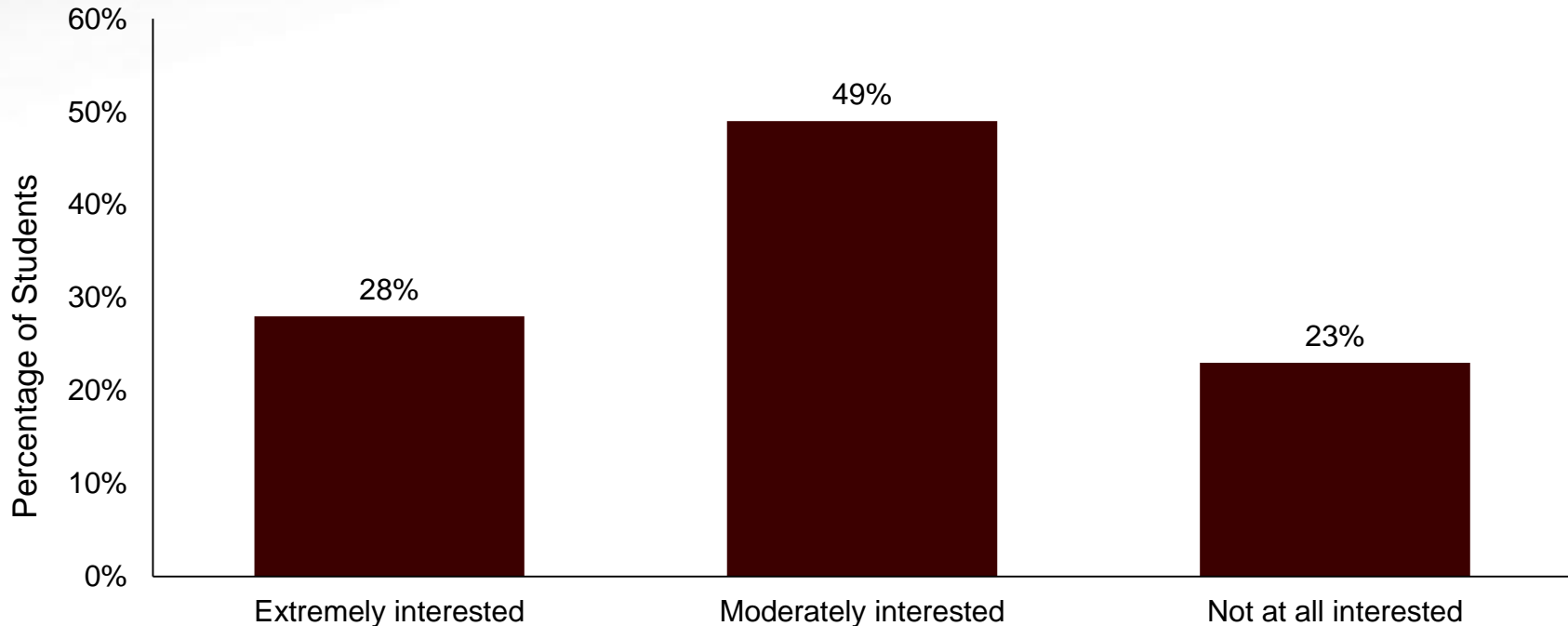


I am satisfied with the quality of education provided by the online course(s) I was enrolled in at Texas A&M.



*Asked only to students who indicated they had taken an online course.

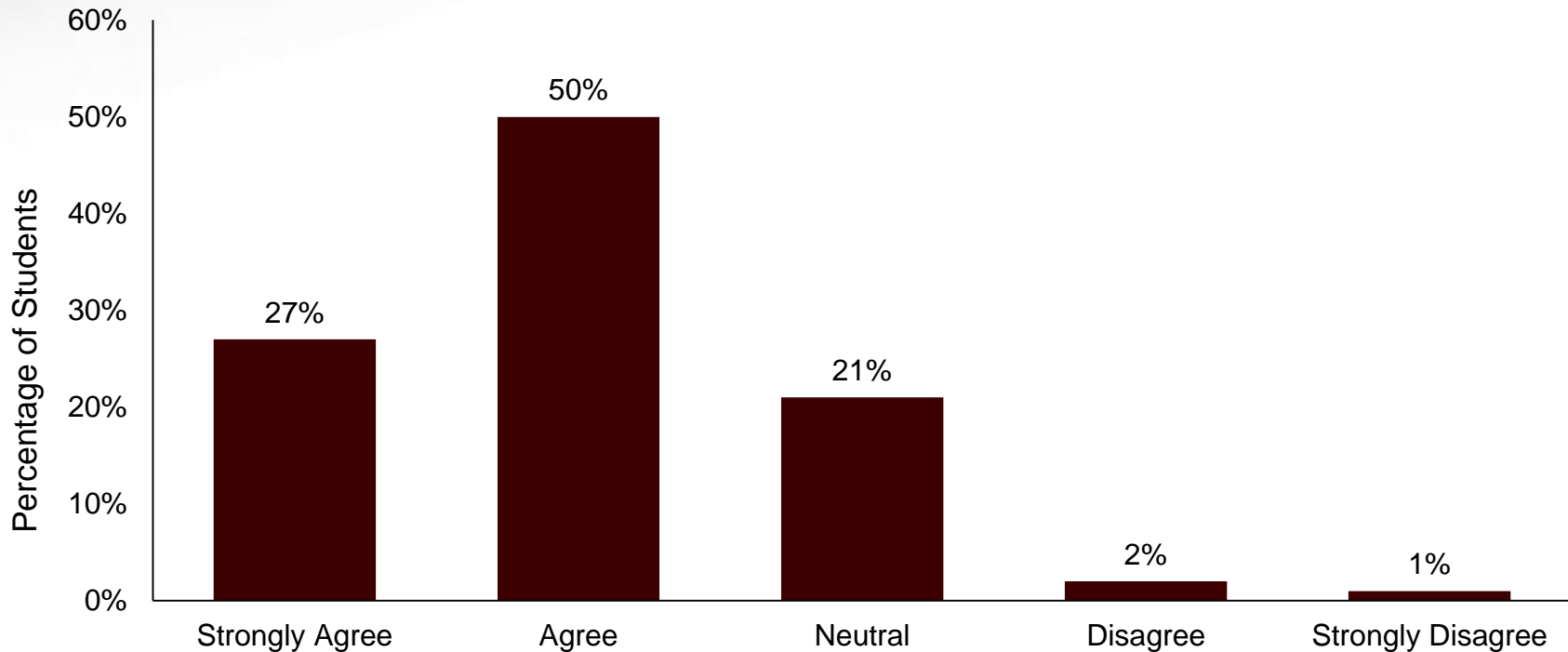
If there were more online courses offered for your degree, how interested would you be in taking them?



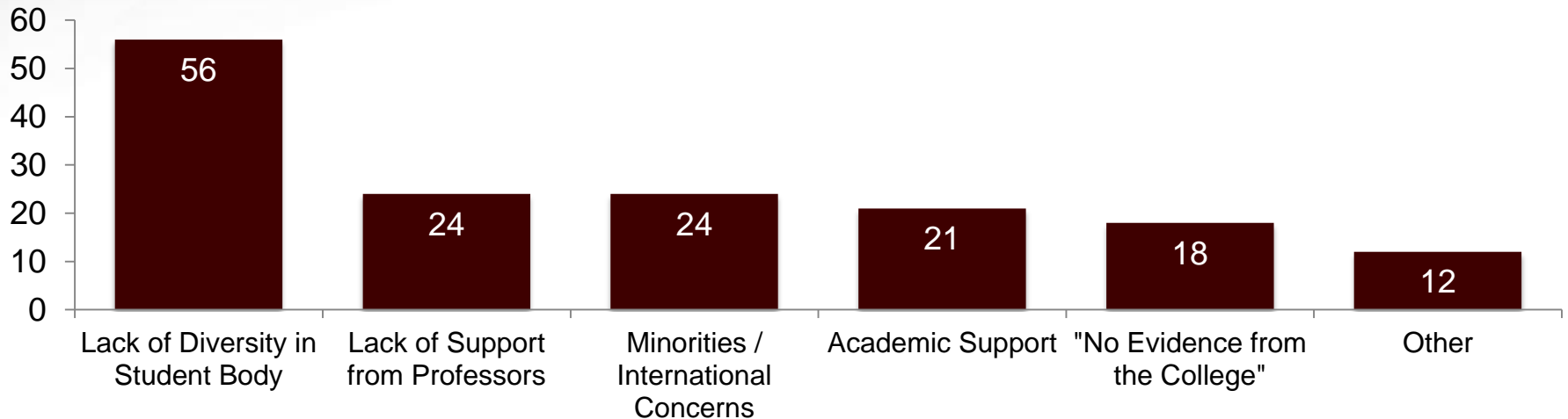
Undergraduate Environment Questions

Asked to all Undergraduates

I think that the College of Engineering values diversity.



Please provide an example(s) of how the College of Engineering undervalues diversity.



*Asked only to students who chose "Disagree" or "Strongly Disagree" in the preceding question.

Please provide an example(s) of how the College of Engineering undervalues diversity.

Student Body:

- “[the department] needs to incorporate ideas that would help students feel a lot more comfortable with dealing with [people] from a different background.”

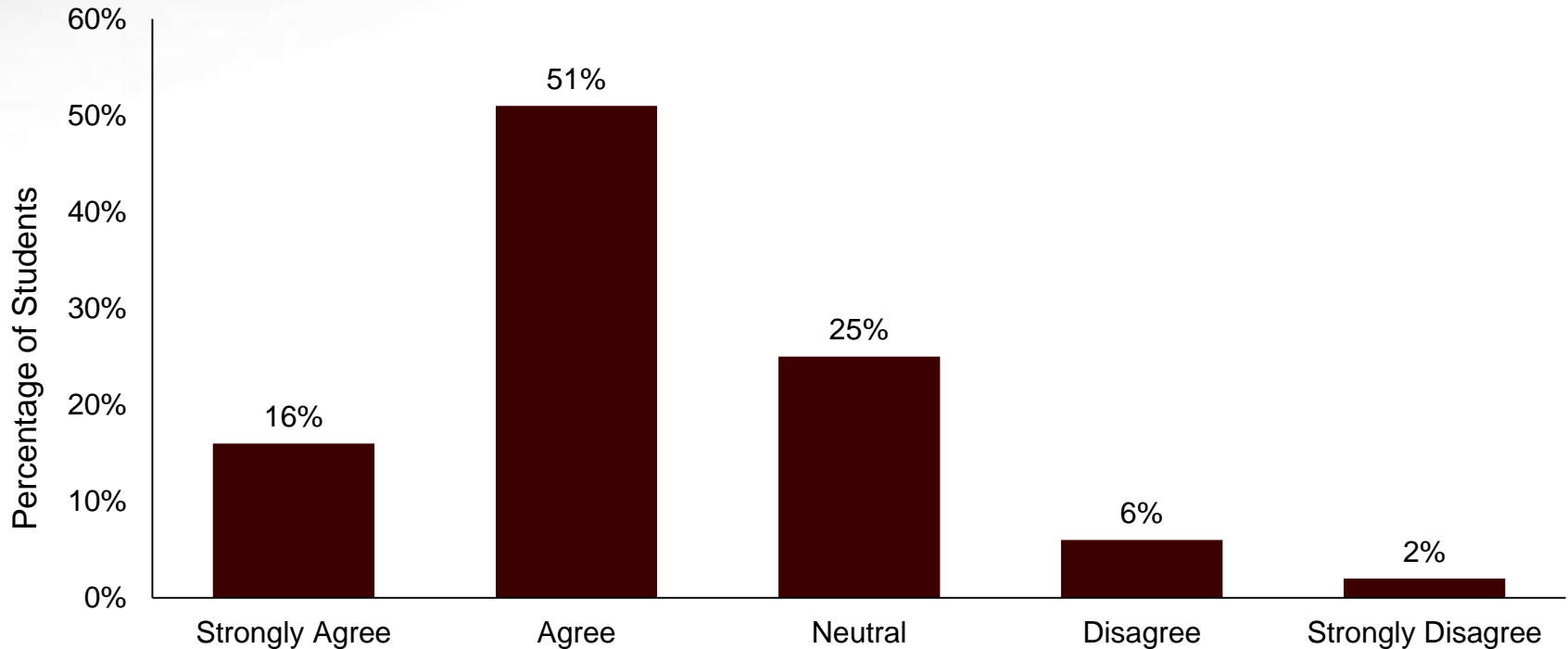
Professors:

- “Professors remain neutral when diverse students are being criticized or ridiculed.”

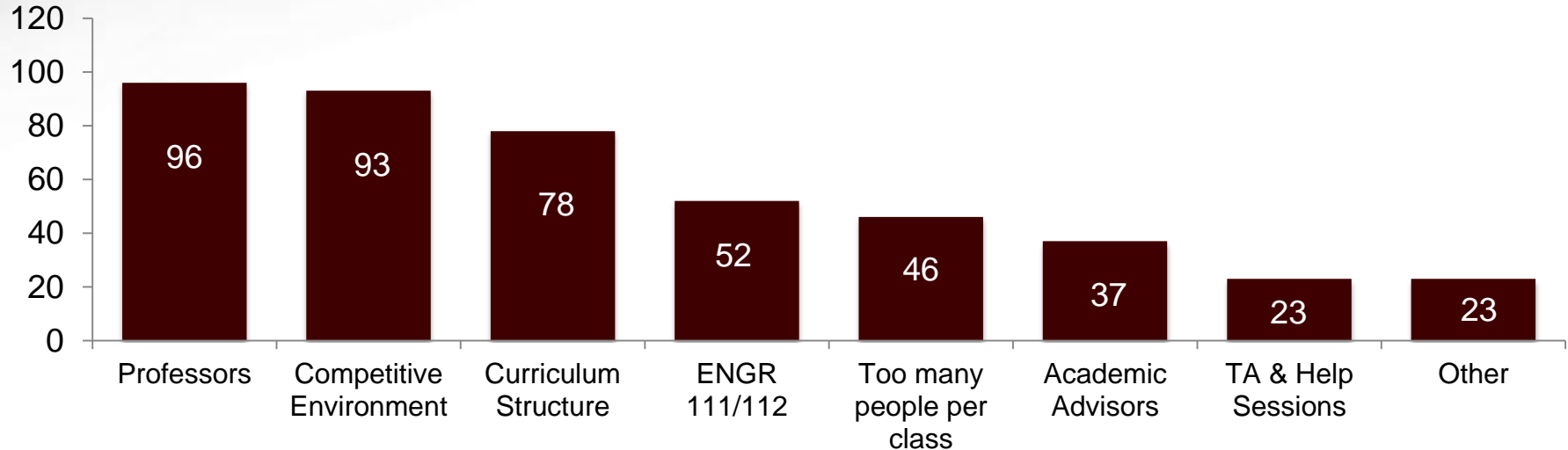
Academic Support:

- “...does nothing for communication barriers and punishes other students for having to ‘deal with it’.”

The environment within the College of Engineering helps me succeed academically.



Please provide an example(s) of how the environment does not help you succeed academically.



*Asked only to students who chose “Disagree” or “Strongly Disagree” in the preceding question.

Please provide an example of how the environment does not help you succeed academically.

Curriculum Structure:

- “The college of engineering has been changing its course structures and resources nearly every semester, making courses disorganized and resources hard to find.”

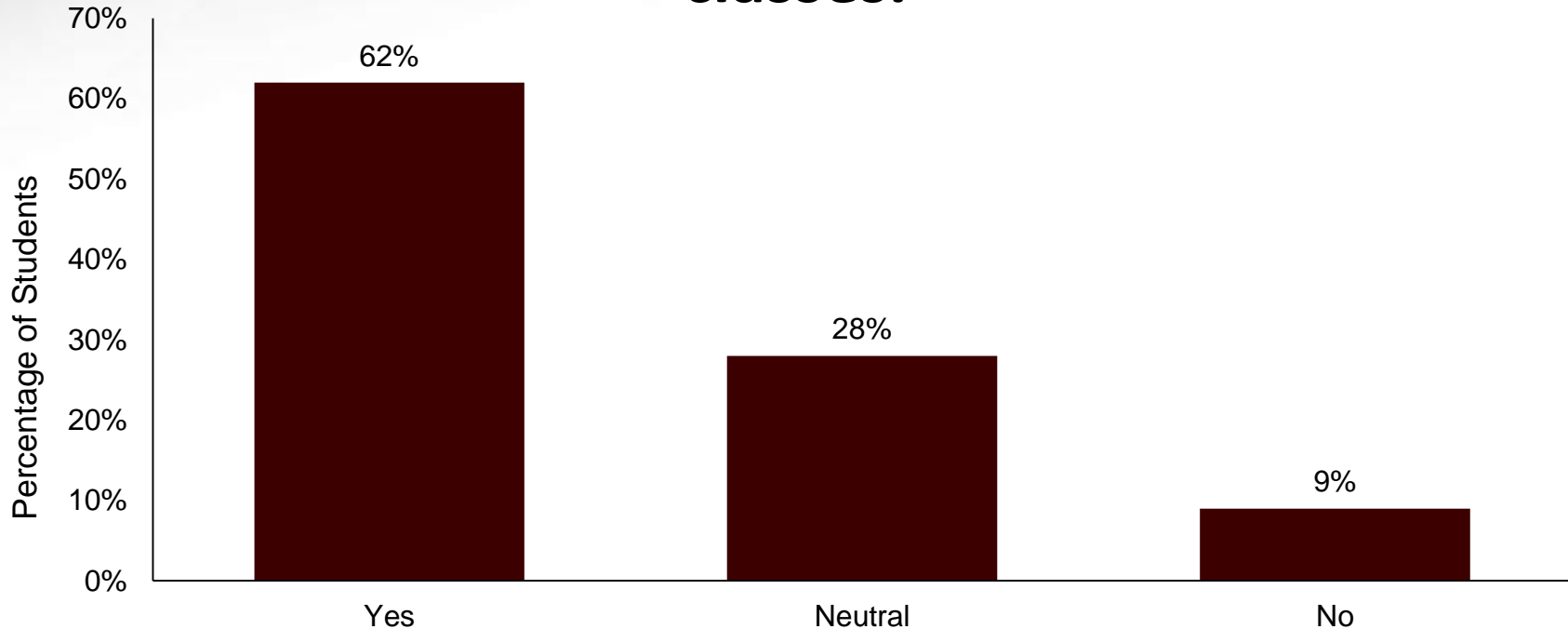
ENGR 111/112:

- “The department made the students feel anxious and nervous about not getting into their desired first-choice major.”

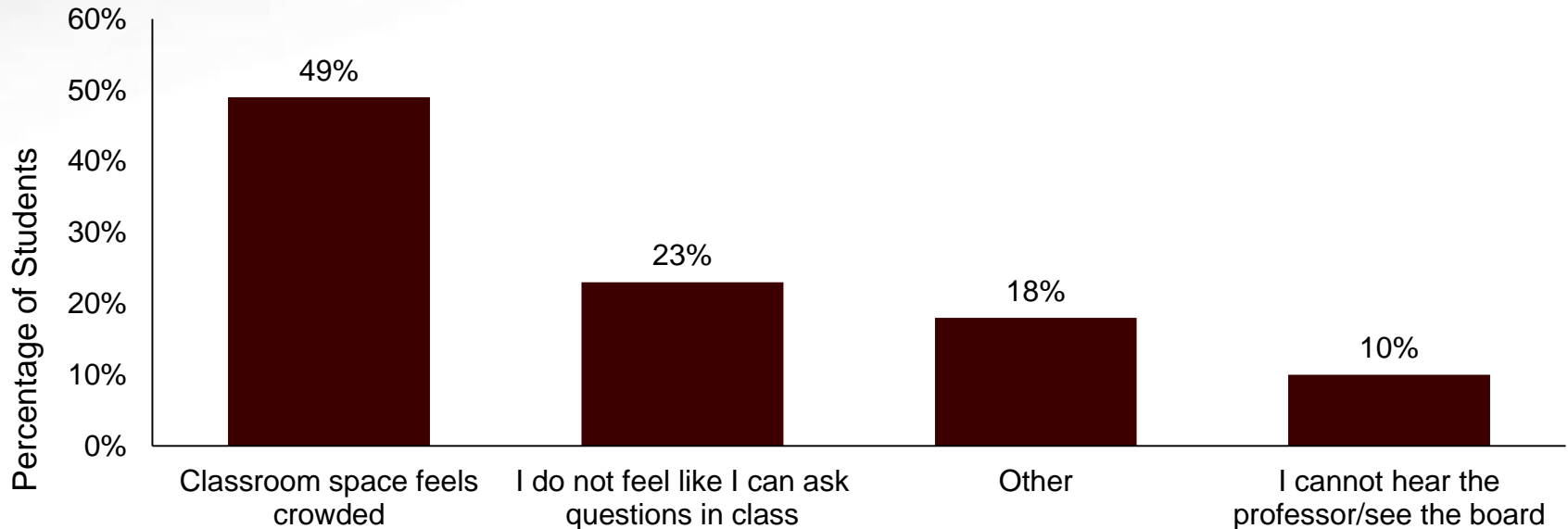
Other:

- “An example is the removal of Pi R Square. I spend roughly 16 hours /day on campus every weekday, and the closest campus-provided food has been removed.”

I am satisfied with the size of my engineering classes.

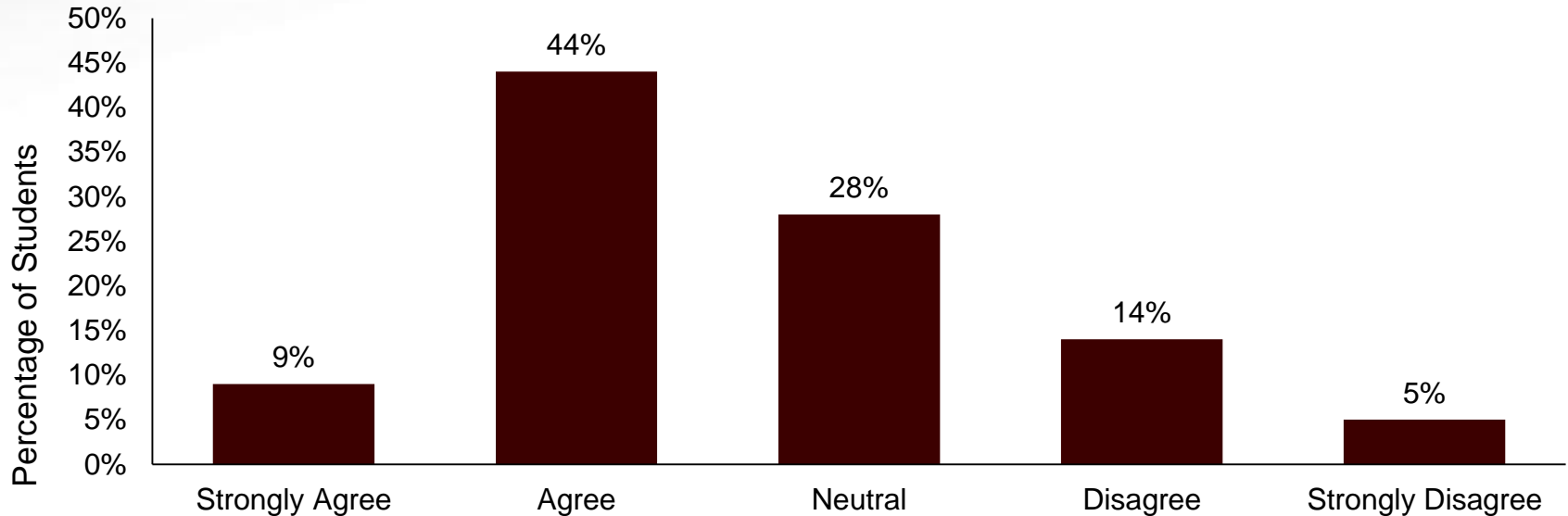


For which of the following reasons are you dissatisfied with the size of your engineering classes?



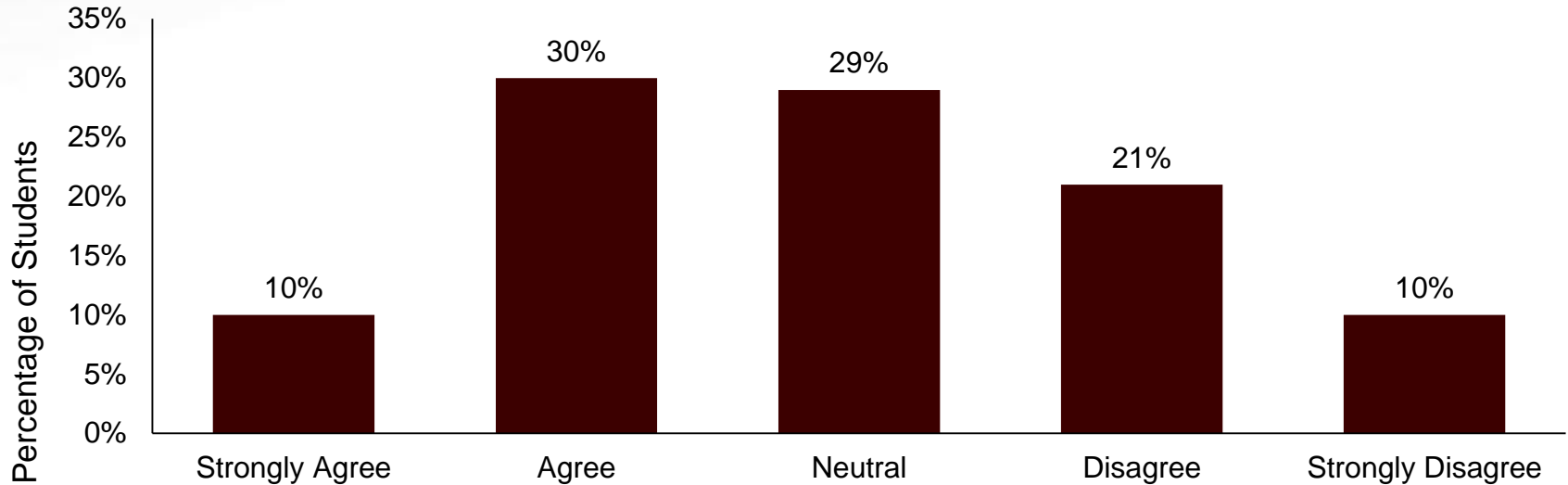
*Asked only to students who answered “No” to the preceding question.

My first year coursework (PHYS, MATH, ENGR, CHEM) adequately prepared me for my engineering coursework.



*Asked to all undergraduates with the exception of 1st year undergrads.

My first year coursework (PHYS, MATH, ENGR, CHEM) helped me decide that engineering was the correct major for me.

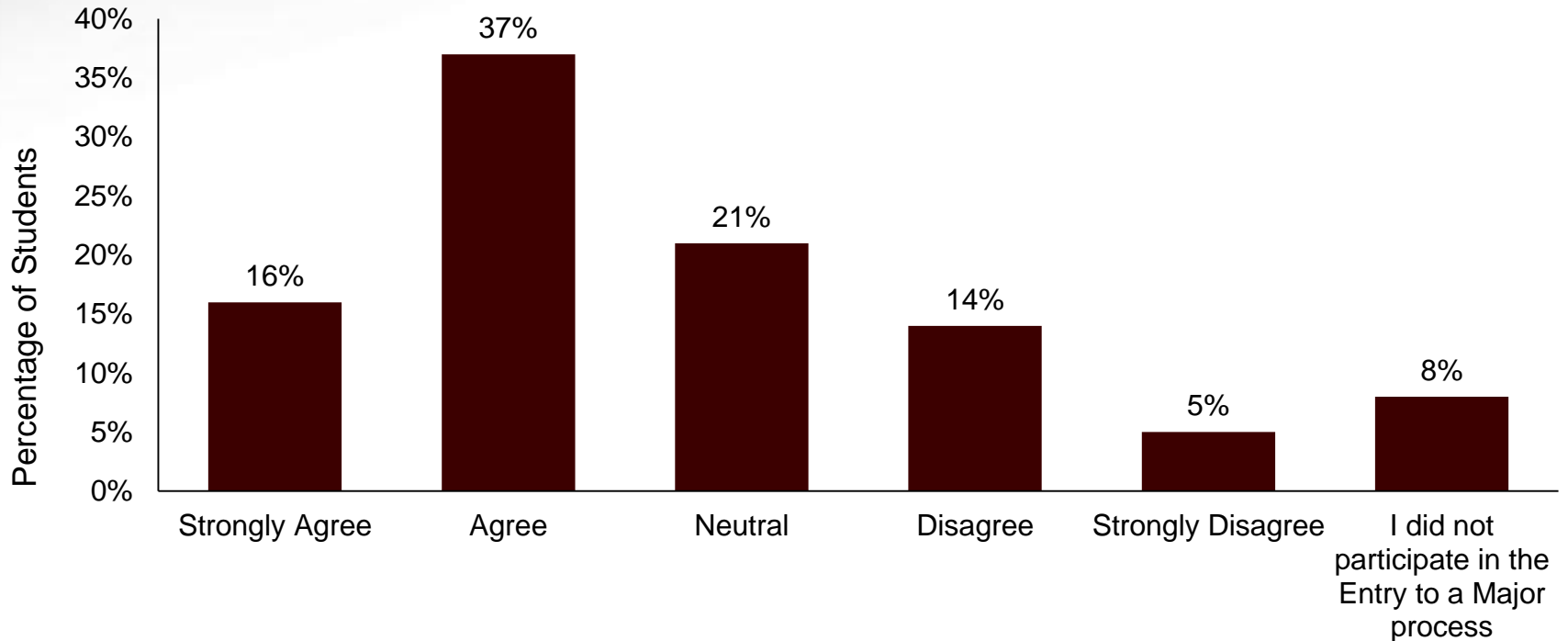


*Asked to all undergraduates with the exception of 1st year undergrads.

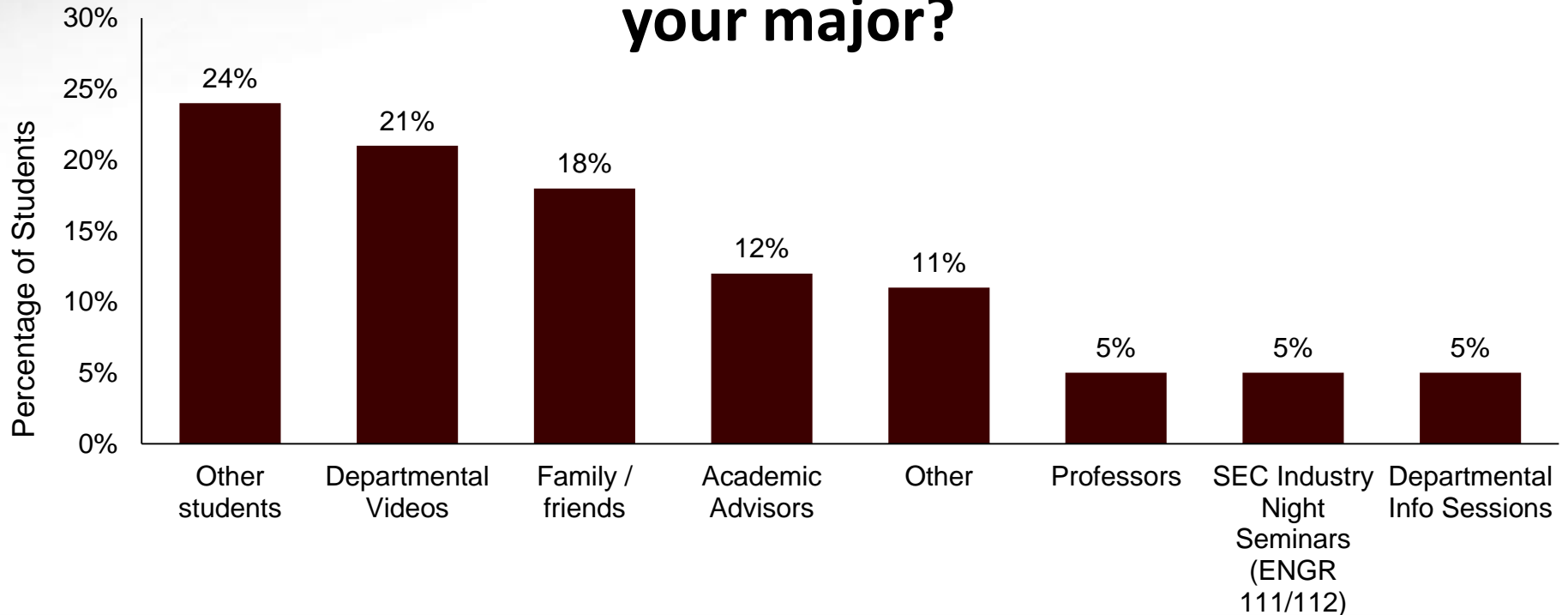
Entry to a Major Questions

Asked to 1st and 2nd year
undergraduates

I received sufficient information about the different majors to make an informed decision about my major.



During your first year at Texas A&M, what was/is the most helpful source of information when applying to your major?



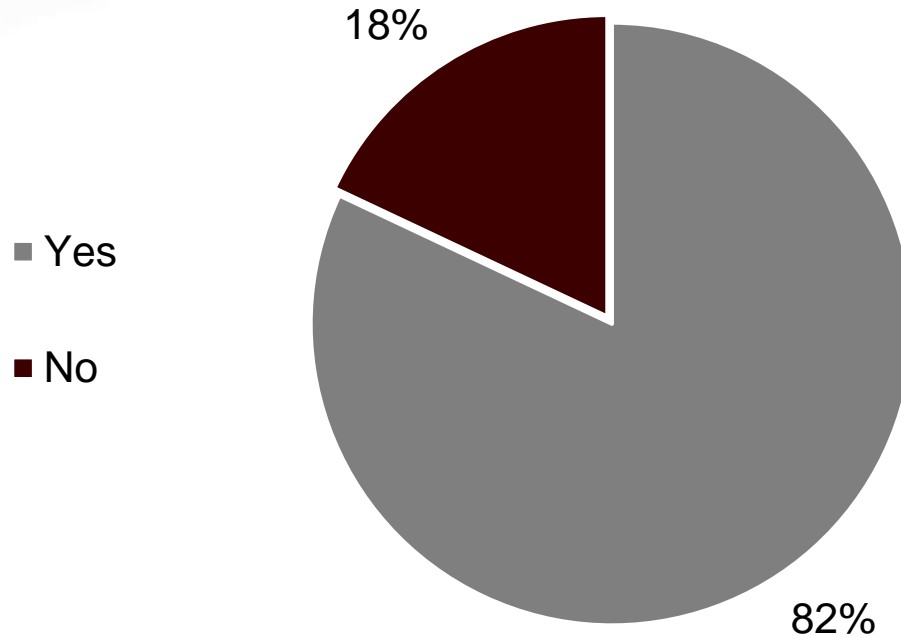
25 by 25 Initiative Questions

Asked to all students

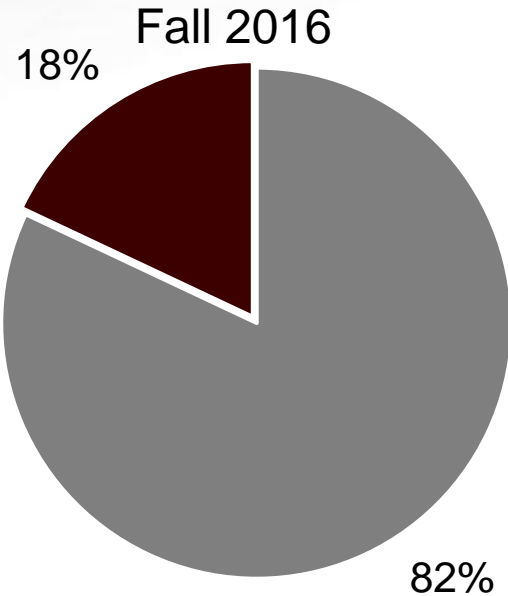
25 by 25 Initiative Definition

“The 25 by 25 Initiative is a program initiated by the College of Engineering to increase the enrollment of engineering students (undergraduate + graduate) to 25,000 by 2025. You can find more information at: engineering.tamu.edu/25by25”

Are you aware of the 25 by 25 Initiative?

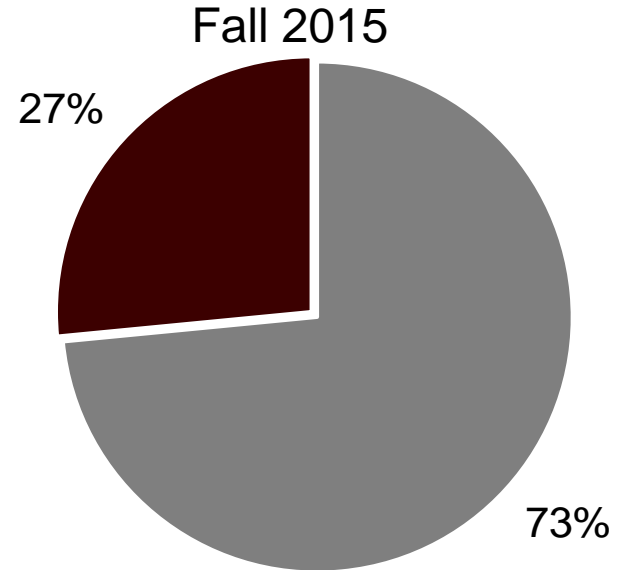


Comparison: 25 by 25 Initiative awareness



Responses: 7430

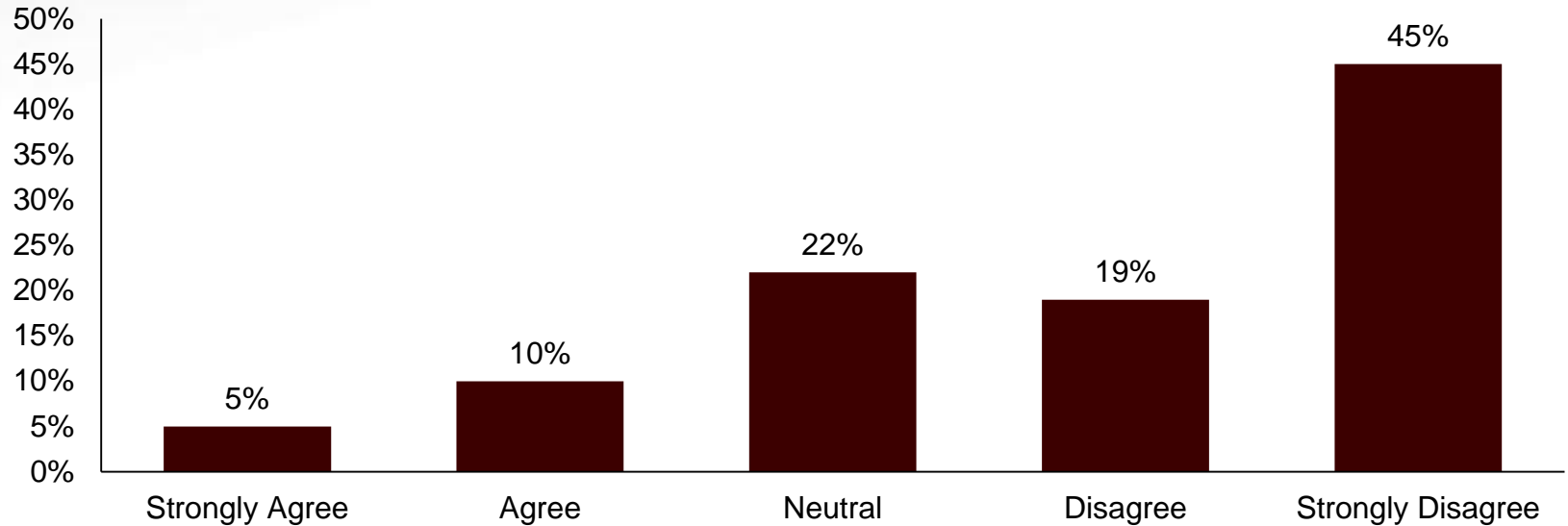
■ Yes
■ No



Responses: 3686

Please rank your agreement with the following statement. I support the 25 by 25 Initiative.

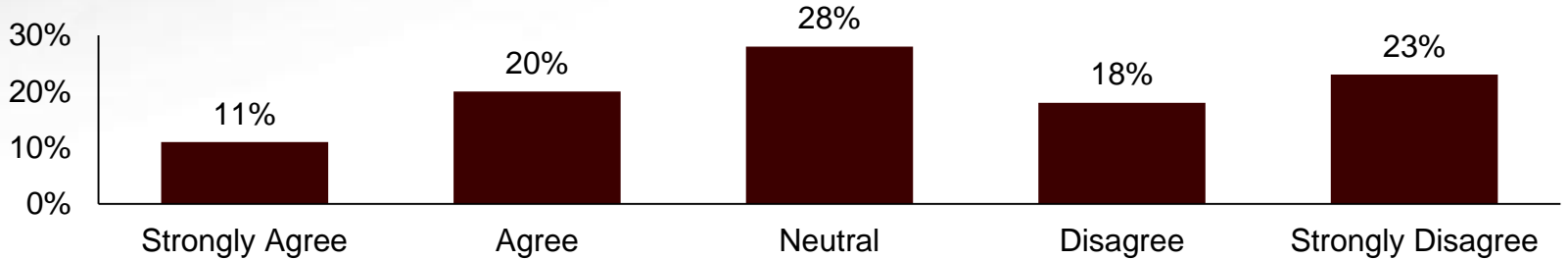
Fall
2016



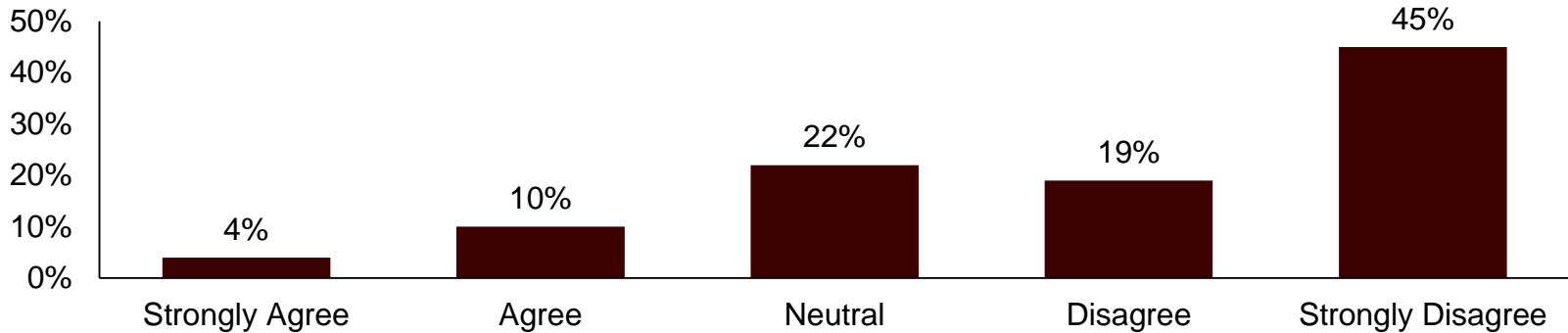
*Asked only to students answering “Yes” to 25 by 25 awareness. Additionally, this question **was not** asked to 1st year undergraduates.

Comparison: 25 by 25 Initiative support

Fall 2015
2884* responses

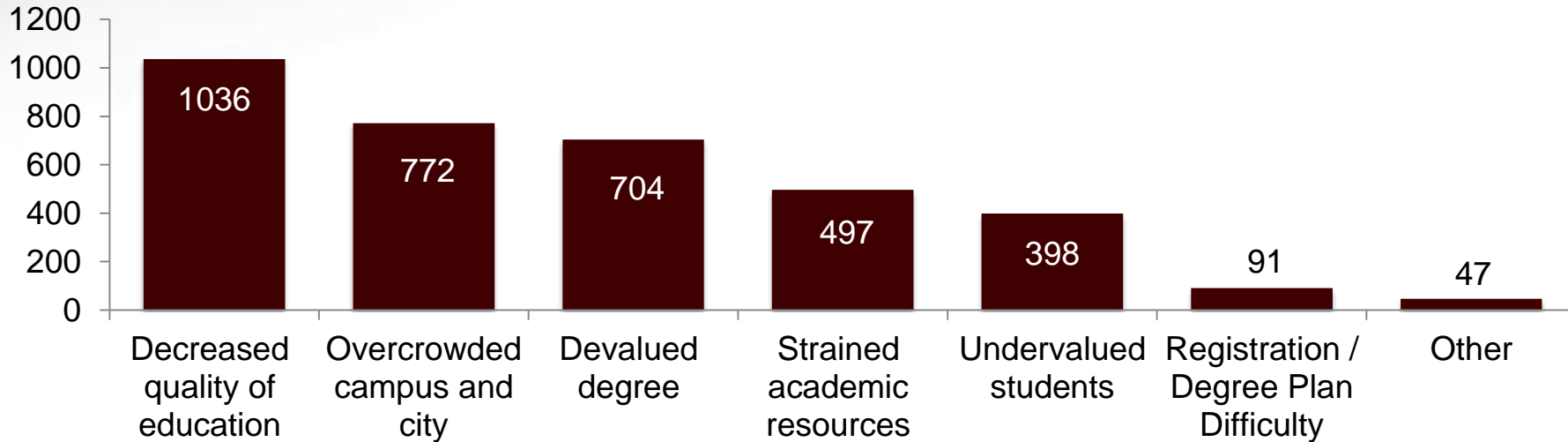


Fall 2016
4737* responses



*Asked only to students answering “Yes” to 25 by 25 awareness. Additionally, this question was filtered to exclude 1st year undergraduates.

Please explain your disagreement with the 25 by 25 Initiative.



*Asked only to students who chose “Disagree” or “Strongly Disagree” in the preceding question.

Please explain your disagreement with the 25 by 25 Initiative.

Decreased Quality of Education:

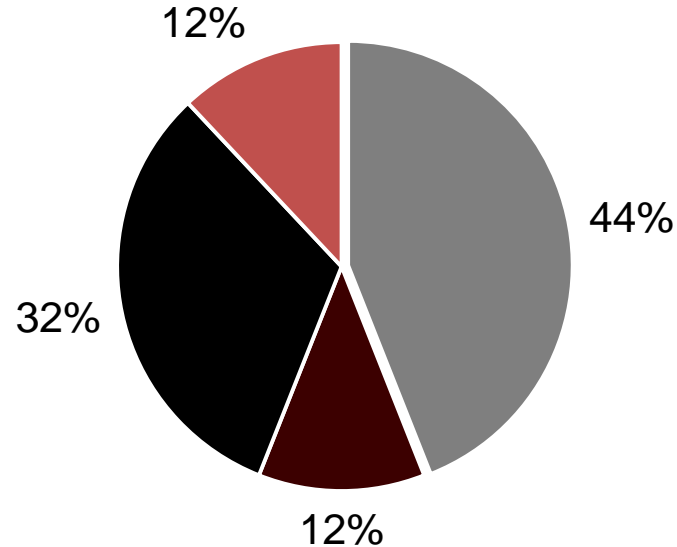
- “I believe strongly that this will devalue the Texas A&M Degree by lowering standards to meet this ‘goal’. Classes will either be larger or be taught by a lower standard of instructor to facilitate this quick expansion.”

Undervalued Students:

- “By increasing the population of engineering students, students are only a number and fail to develop personal relationships with their professors and TAs.”

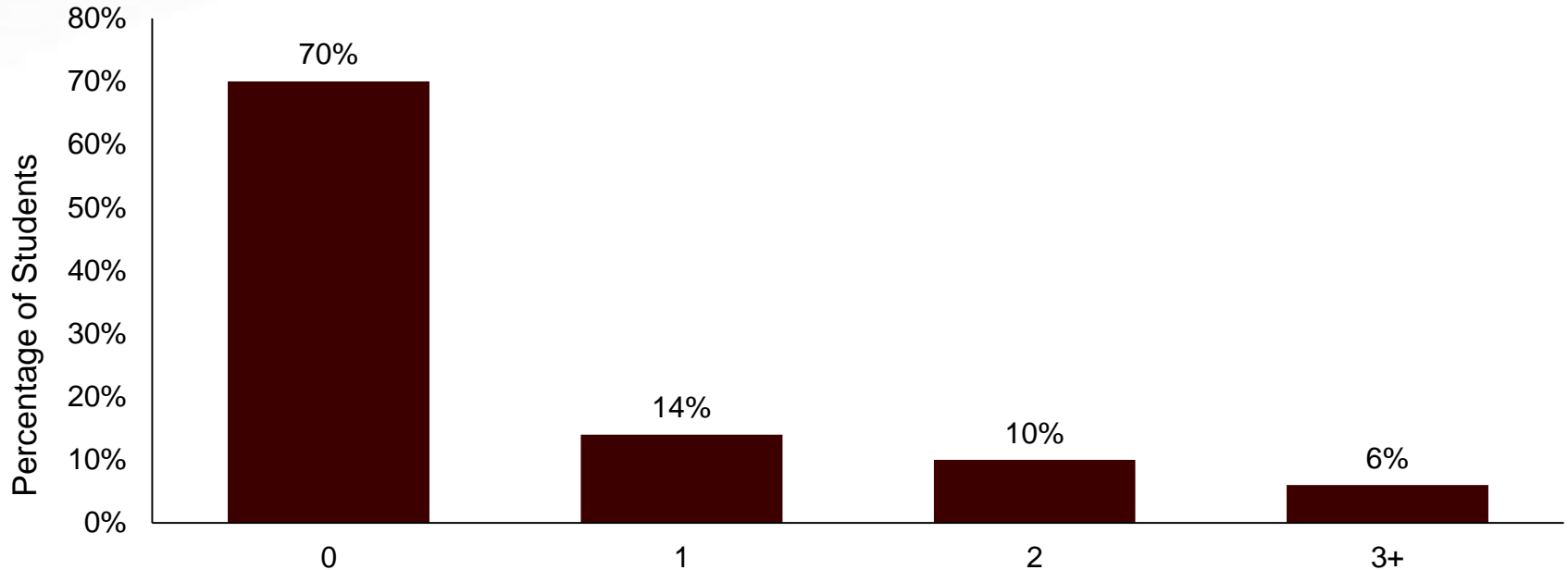
What has been the impact of the closing of Pi R Square?

- I am unaffected by the closing.
- I pack my own lunch.
- I walk farther for food.
- I am unable to eat on campus.

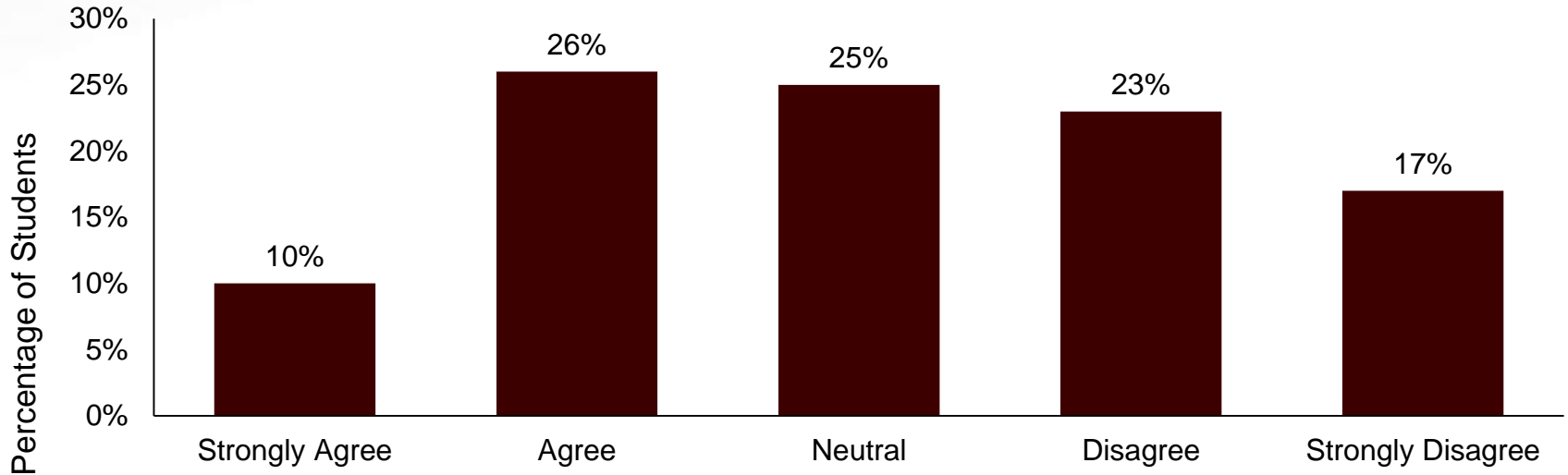


*Filtered to include all students on the College Station campus **except** 1st year undergrads.

How many flipped or inverted learning courses are you taking, or have taken, at Texas A&M while obtaining your Texas A&M Degree?

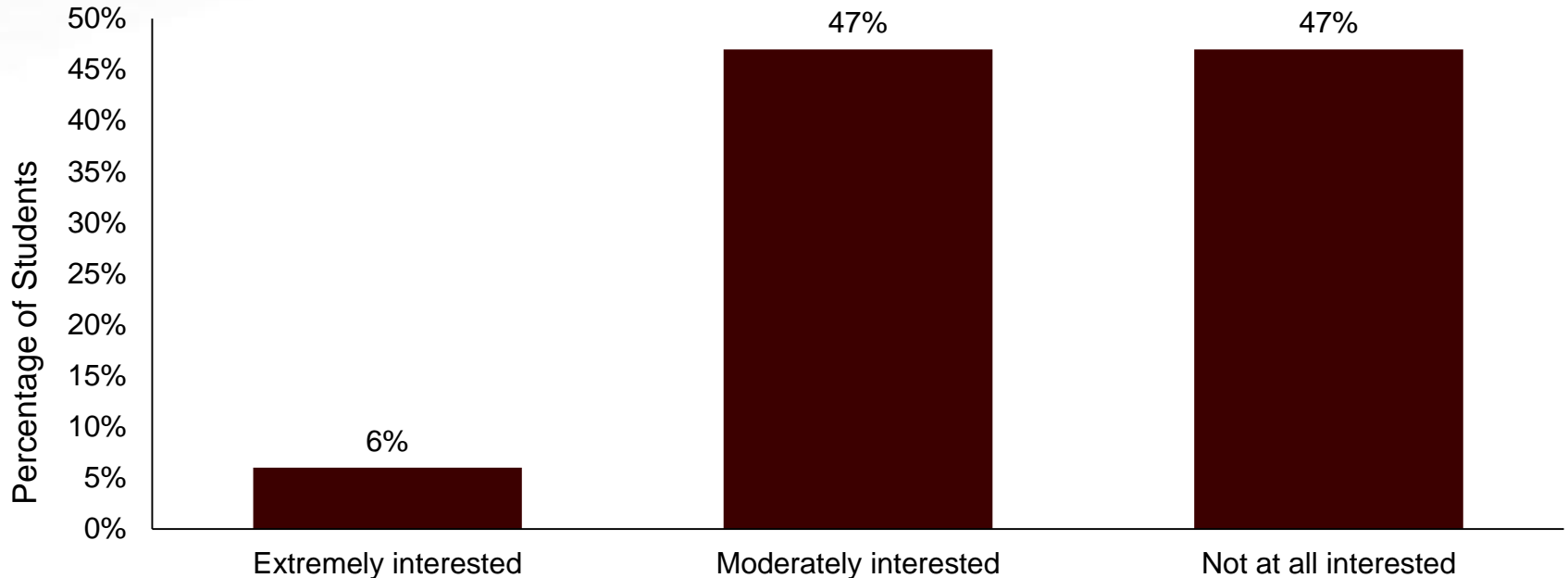


I am satisfied with the quality of education provided by the flipped or inverted learning course(s) I was enrolled in at Texas A&M.

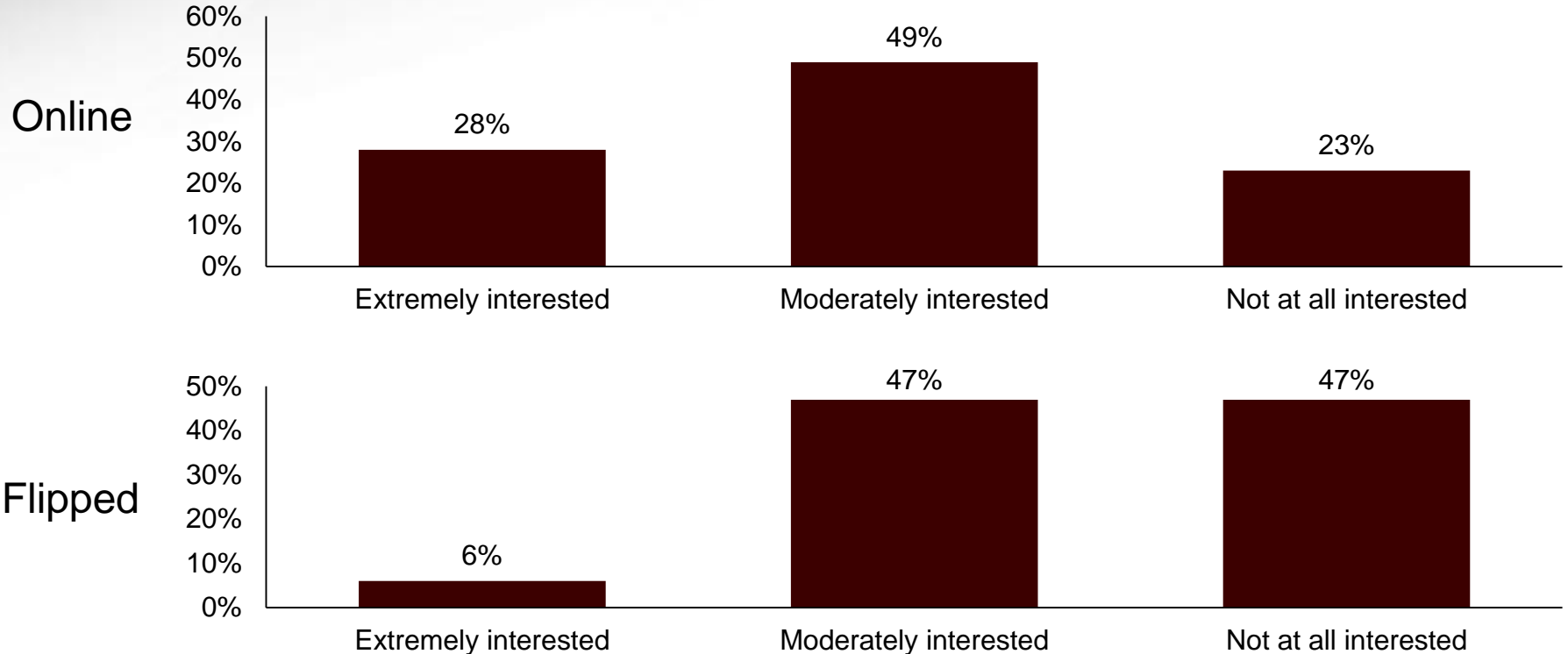


*Asked only to students who indicated they had taken a flipped learning course.

If there were more flipped or inverted learning courses offered for your degree, how interested would you be in taking them?



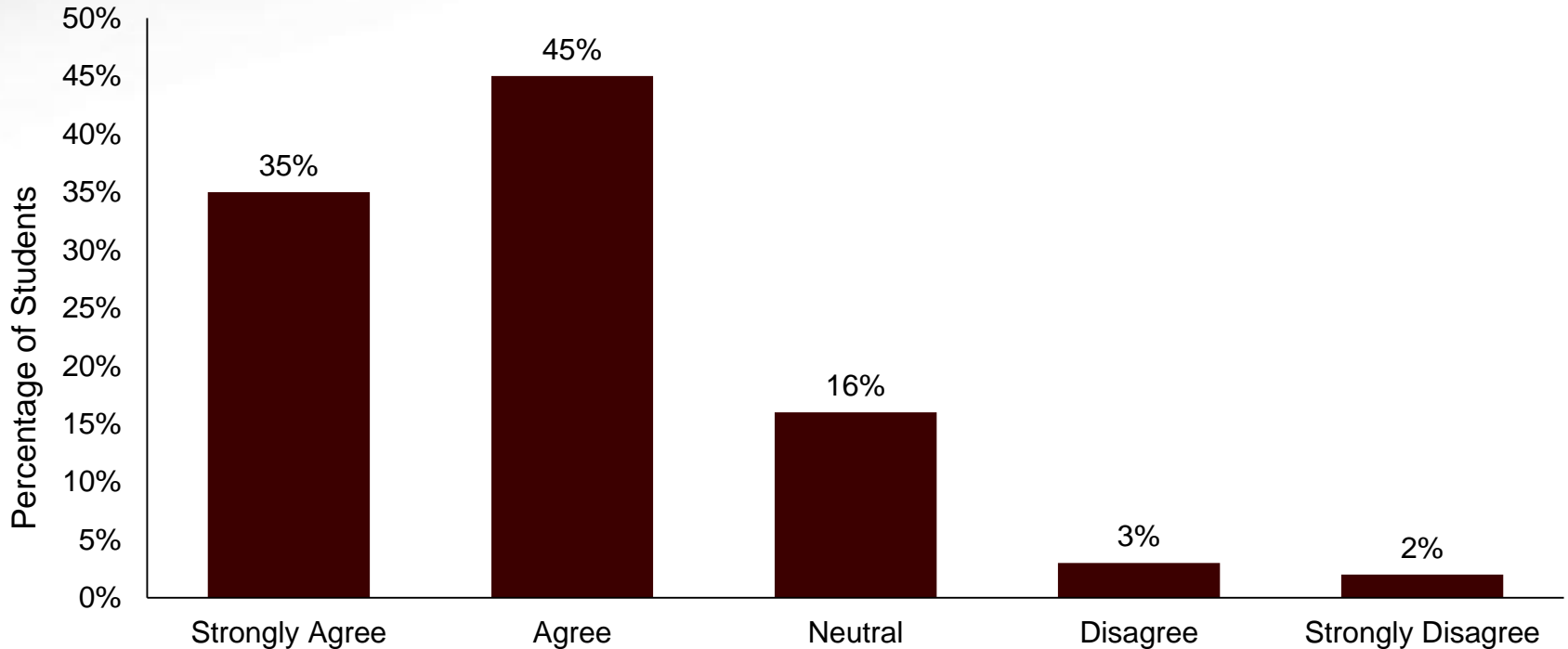
Comparison: Flipped vs. Online courses



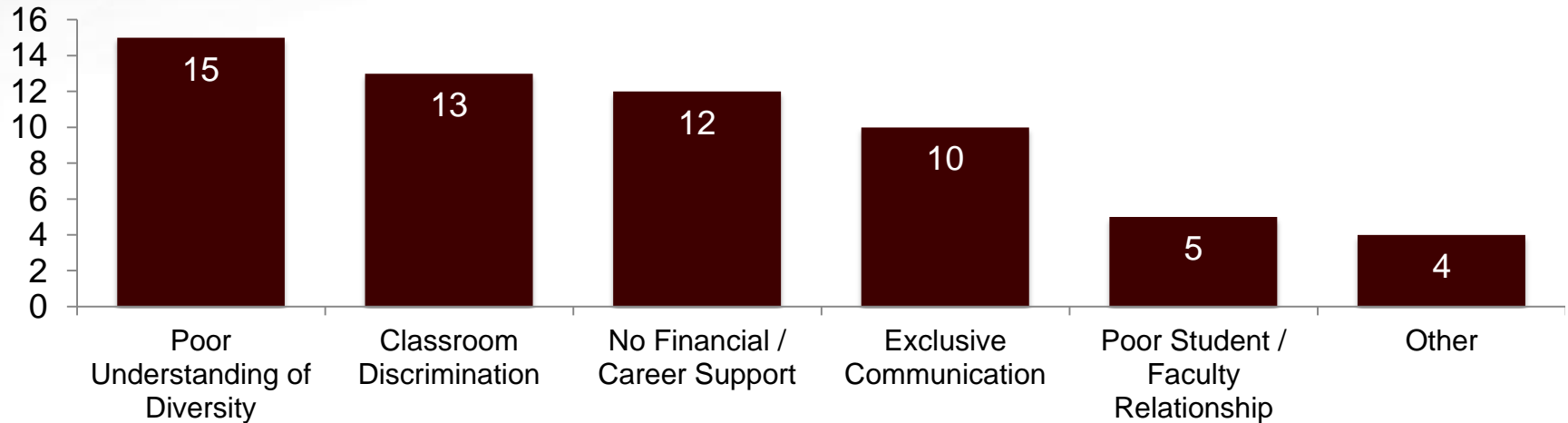
Graduate Student Questions

Asked to Grad Students on the
College Station campus

My department creates a welcoming environment.



Please provide an example(s) of how your department does not create a welcoming environment.



*Asked only to students who chose “Disagree” or “Strongly Disagree” in the preceding question.

Please provide an example(s) of how your department does not create a welcoming environment.

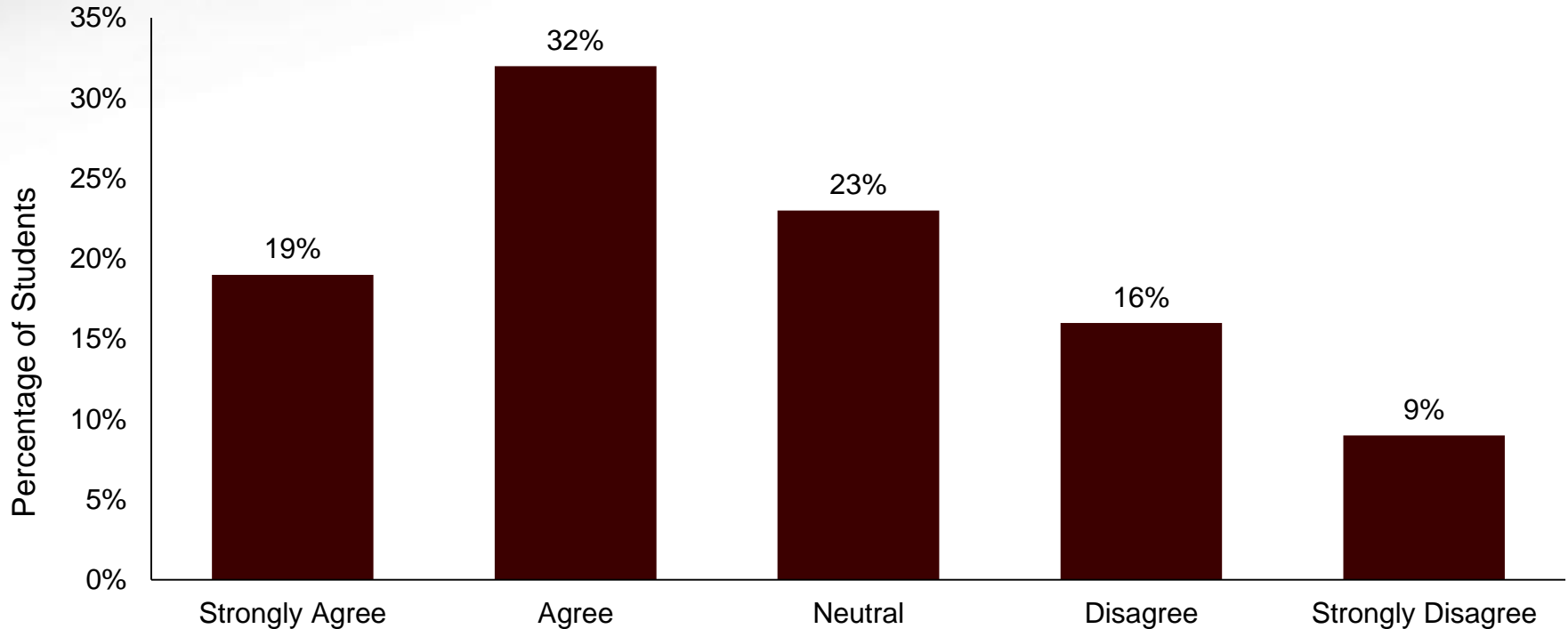
Poor Understanding of Diversity:

- “It is difficult to feel ‘welcome’ when students insist on only interacting with students of the same nationality, in their native language in mixed company.”

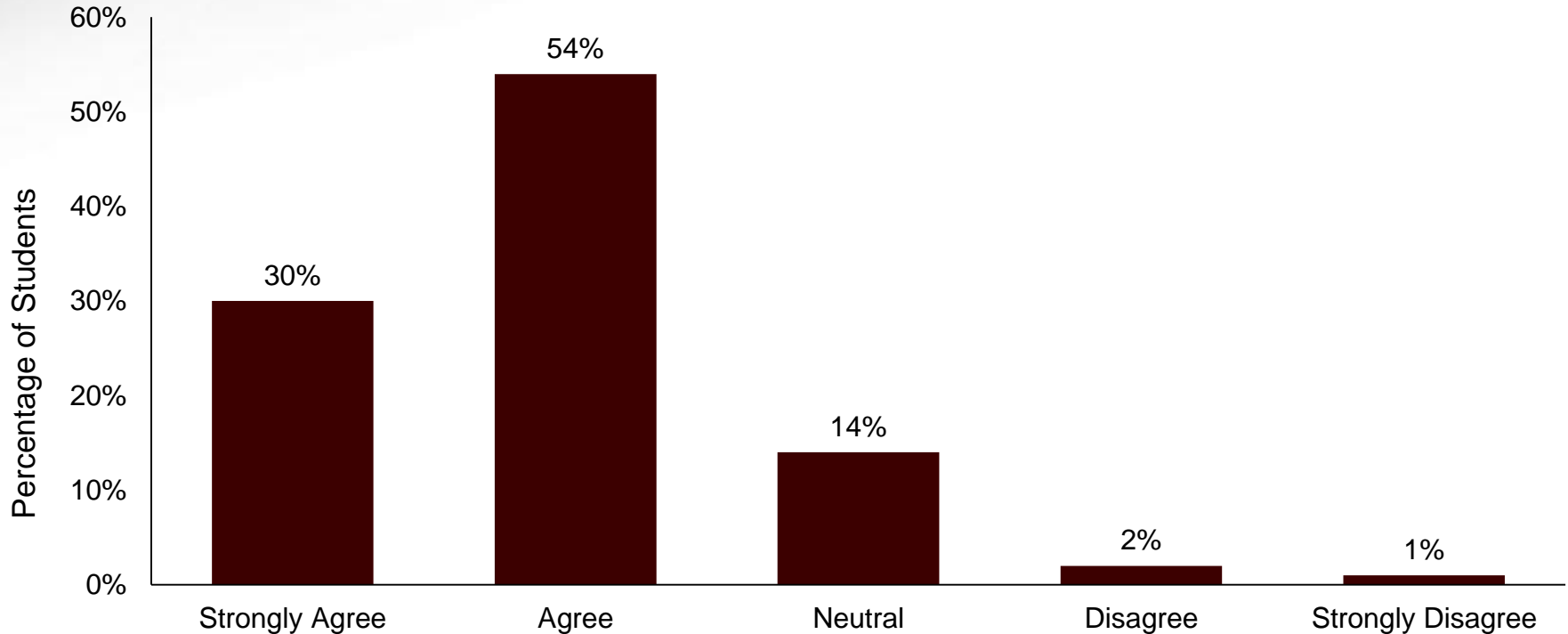
Exclusive Communication:

- “There was no specific welcome event or information event for new students.”

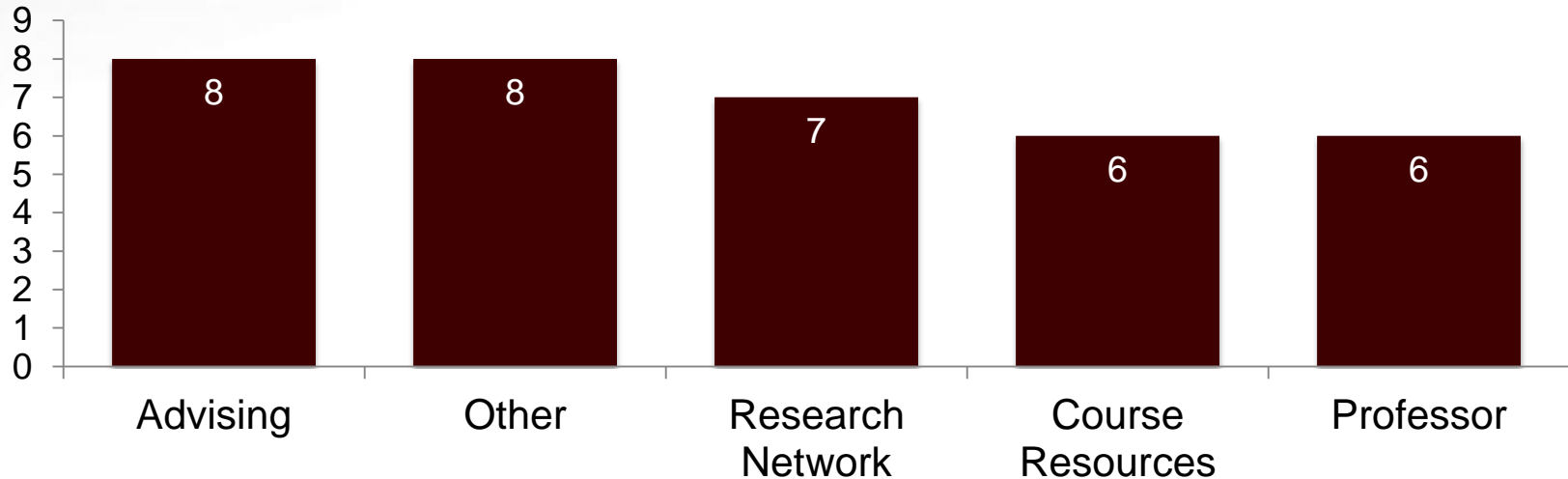
I am given adequate financial support to succeed in graduate school.



I am able to succeed academically in my department.



Please provide an example(s) of how you are unable to succeed academically in your department.



*Asked only to students who chose “Disagree” or “Strongly Disagree” in the preceding question.

Please provide an example(s) of how you are unable to succeed academically in your department.

Advising:

- “We should have opportunities to work with different advisors and on different projects.”

Research network:

- “...limited number of advisors, no communication/collaboration between different groups within the department, no grad student organization support”

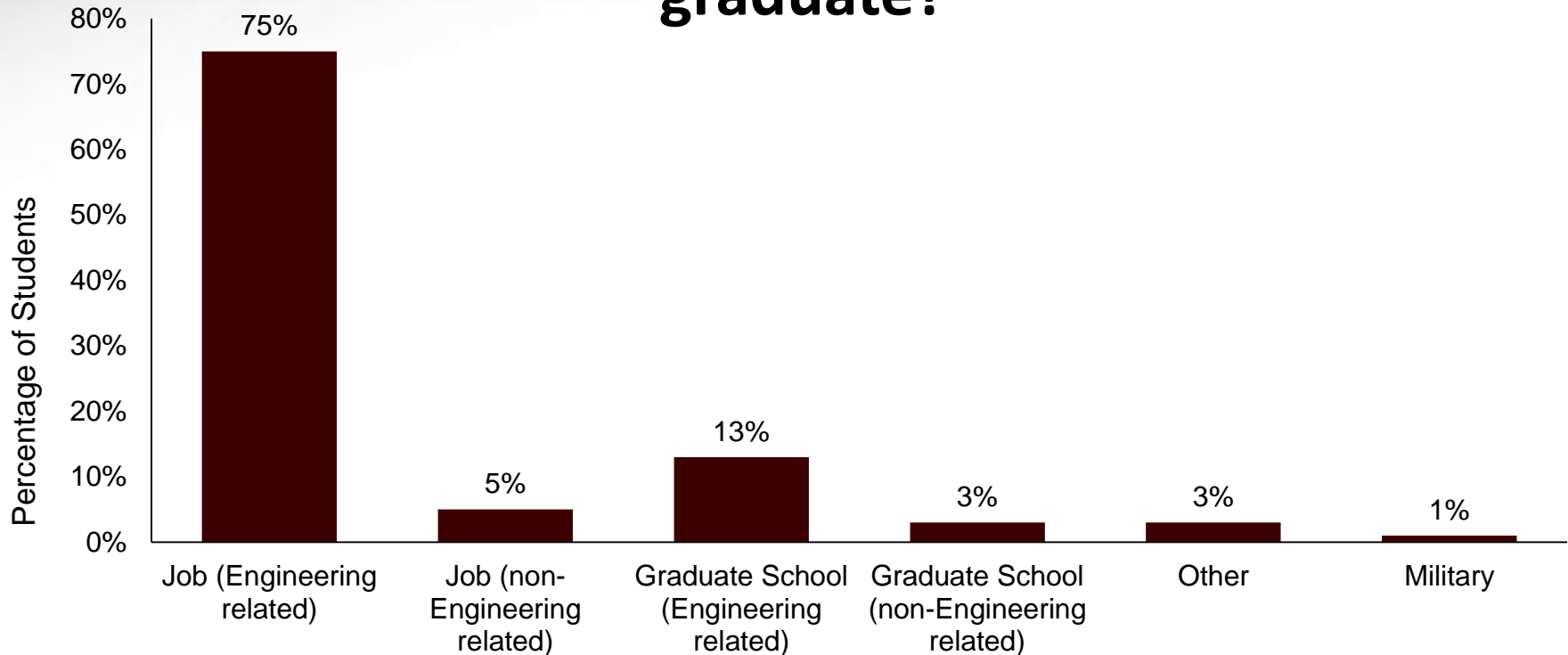
Course resources:

- “With current course offerings in the department, I will not have a background in my research field...professors are working in nanoscience, but few courses are offered in this field.”

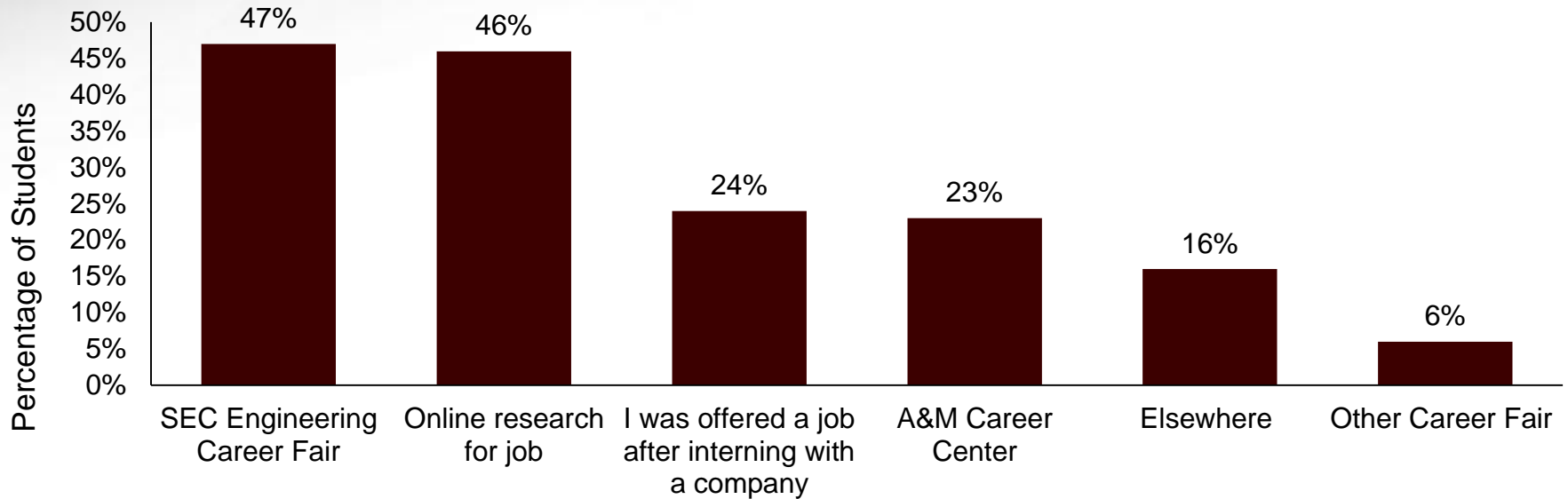
Graduating Senior Questions

Asked students graduating in
December 2016 or May 2017

Which one of the following will you pursue after you graduate?



How did you obtain your job opportunity?

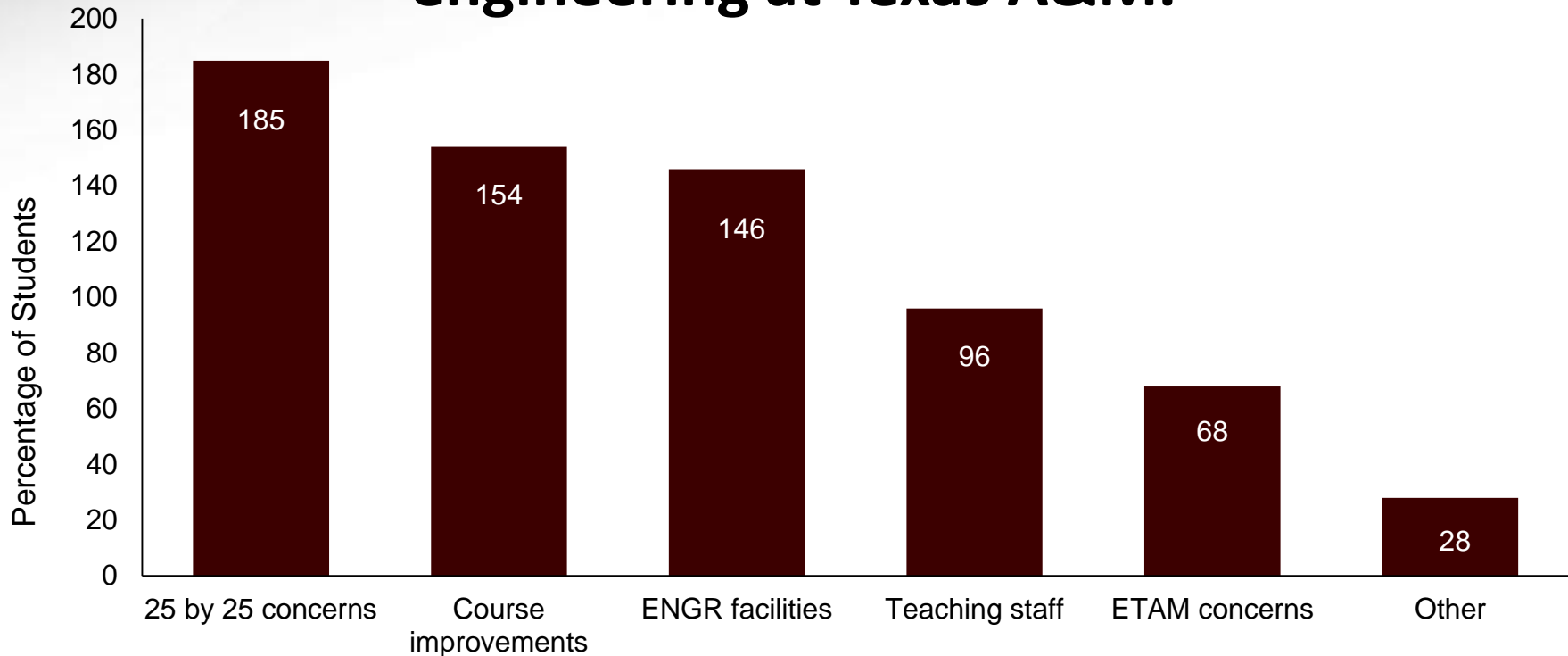


*Asked only to students who chose “Job (Engineering related)” or “Job (Non-engineering related)” in the preceding question.

Closing Question

Asked to all students

Additional comments or concerns regarding engineering at Texas A&M.



Any Additional Comments/Concerns Regarding Engineering at Texas A&M?

25 by 25 Concerns:

- “Make sure the educational infrastructure (most importantly high-quality professors) is fully sufficient before expanding the class sizes and growing the program. Always remember that quality is far more important than quantity, especially when it comes to providing the education these students are paying for. Don't lower the bar of the qualities a student must have to get into this program just to get the 25 by 25.”

Freshmen and Major Specific Courses:

- “The foundation engineering courses (ENGR 111 and ENGR 112), while possibly run with best intentions, are setup in a way that doesn't give freshmen an accurate taste of what their sophomore-and-higher level courses / actual engineering will be. Much of the work is tedious and, though helpful in fostering professional skills, not specific to engineering.”

2016-2017 Legislation Committee

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