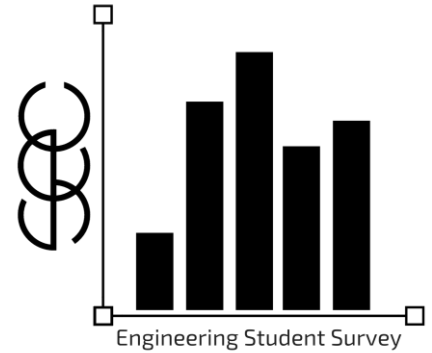


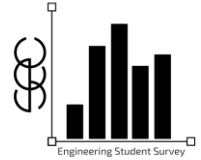
ENGINEERING STUDENT SURVEY



Results Presentation

February 8, 2022

Survey Executive Summary



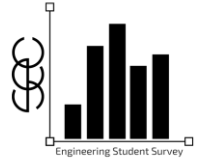
Mission

A primary mission of the Student Engineers' Council is to serve as the representative voice for the students within the College of Engineering. This survey seeks to communicate the student perspective to College of Engineering administration.

Survey Restructuring

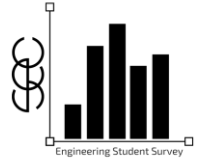
The Post-Graduation section was split and introduced Internship and Professional Experiences. A mental health section was added this year to promote and gauge the ZACH CAPS resource. A few other sections saw a change in which students were able to give feedback.

Survey Question Breakdown



Introduction/Demographic Questions	Slide 6
Undergraduate Student Questions	Slide 18
Engineering Student Organization Questions	Slide 32
ETAM Questions	Slide 38
Graduate Student Questions	Slide 44
Post-Graduation Questions	Slide 49
Internship and Professional Experiences Questions	Slide 55
Career Fair Questions	Slide 61
International Experience Questions	Slide 70
Mental Health Questions	Slide 81
Diversity & Inclusion Questions	Slide 86

Survey Response Summary



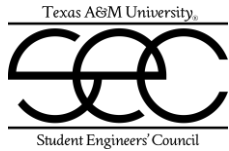
6-Week Survey Period

November 1, 2021– December 10, 2021

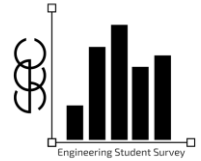
3,480 Total Respondents

~16% of Engineering Student Body

(79% from Undergraduate Students + 21% from Graduate Students)



Special Thanks



Dr. Angie Hill Price, *Associate Dean for Undergraduate Programs*

Carmen Mota, M.A, LPC-S, *Professional Counselor III, CAPS*

Kyle Beck, *SEC President*

Kendall McGinnis, *SEC VP Internal*

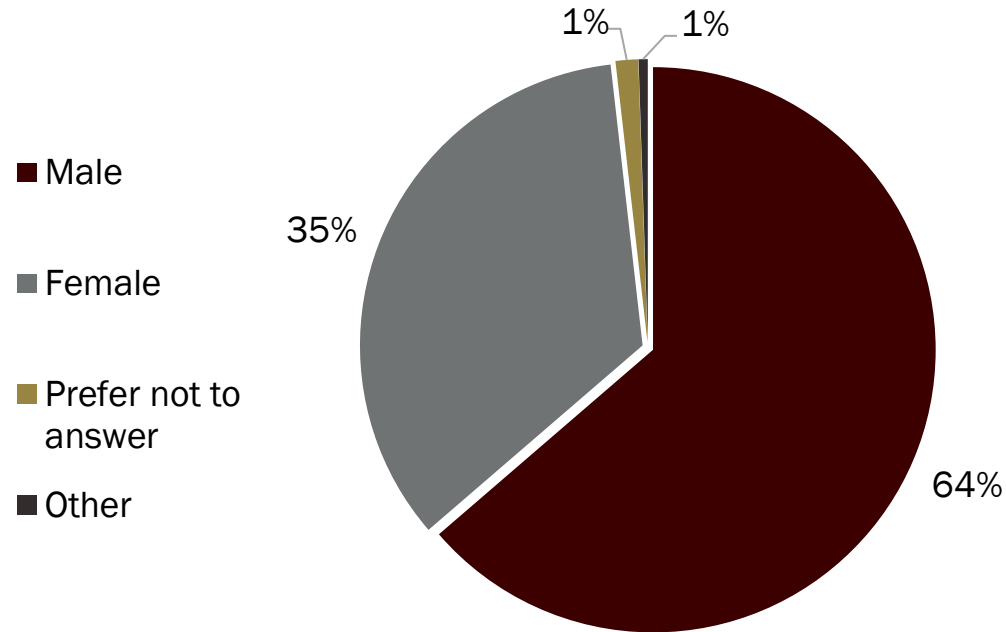
Peter McElaney, *SEC VP Development*

Introduction/Demographic Questions

Asked to all students

Responses: 3480

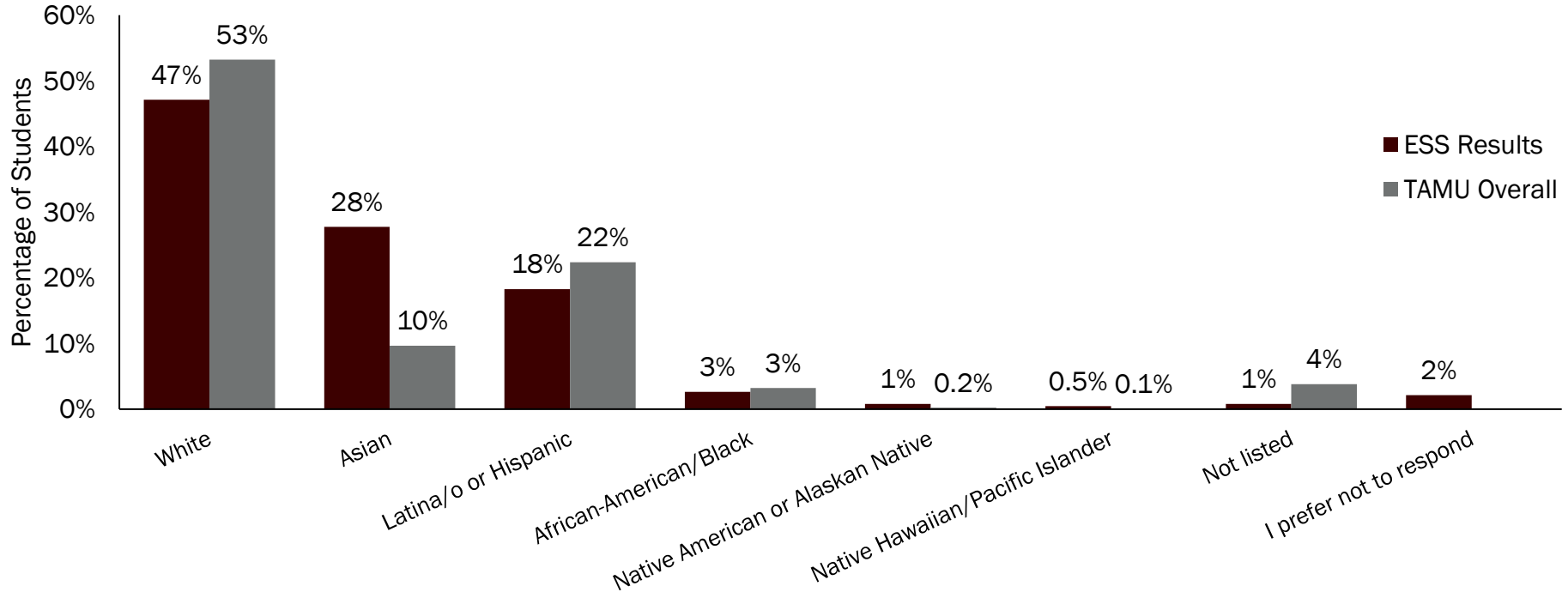
Sex/Gender:





Responses: 3851

Race/Ethnic Identification (*Select all that apply*):

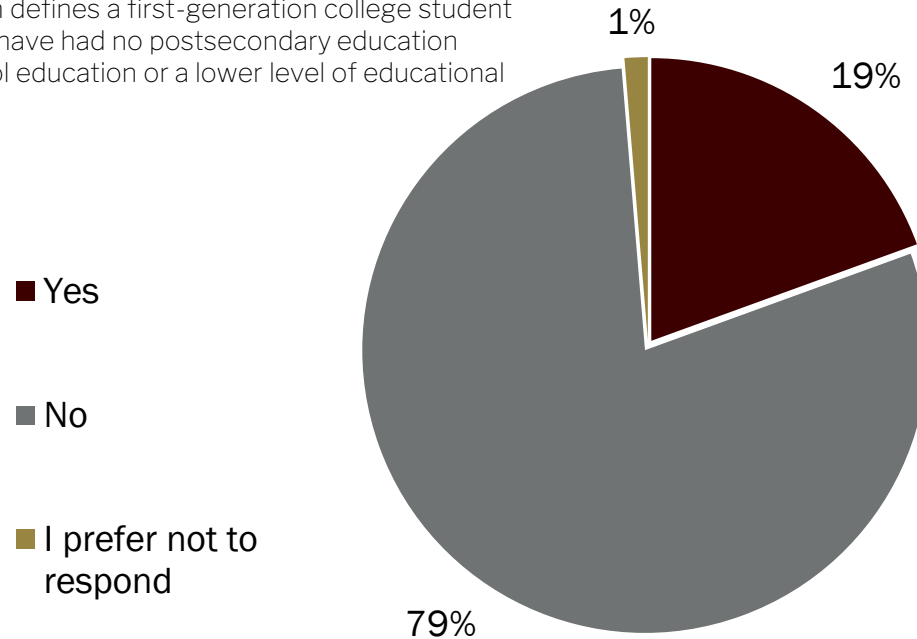


Responses: 3480



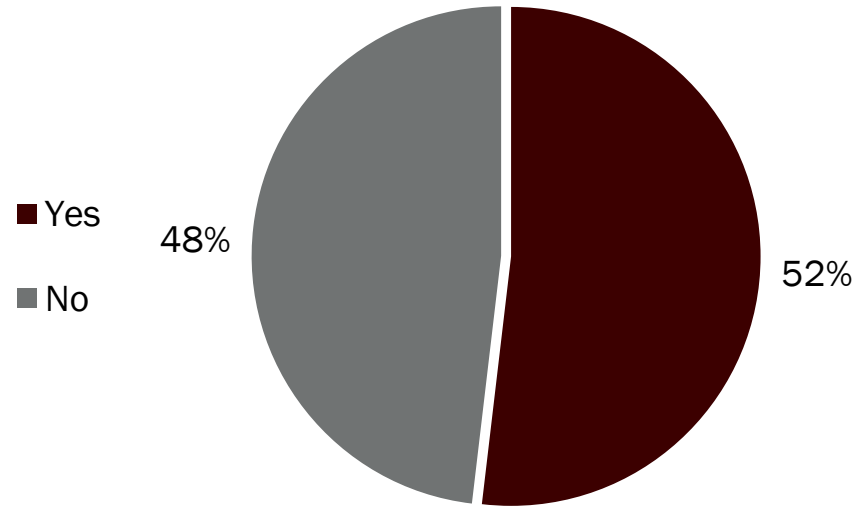
Are you a first-generation college student?

The U.S. Department of Education defines a first-generation college student as a person "whose parents both have had no postsecondary education experience and have a high school education or a lower level of educational attainment."



Responses: 3480

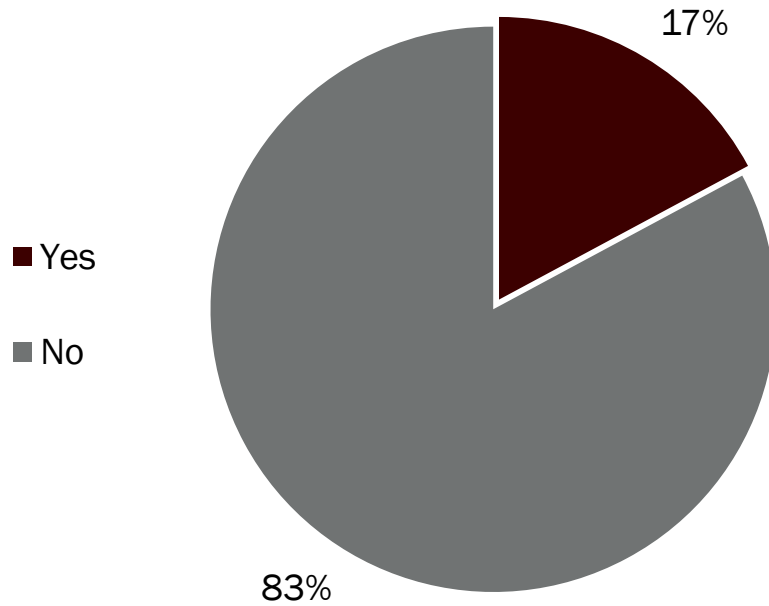
Are you the first member of your family to study/have a career in engineering?



Responses: 3480



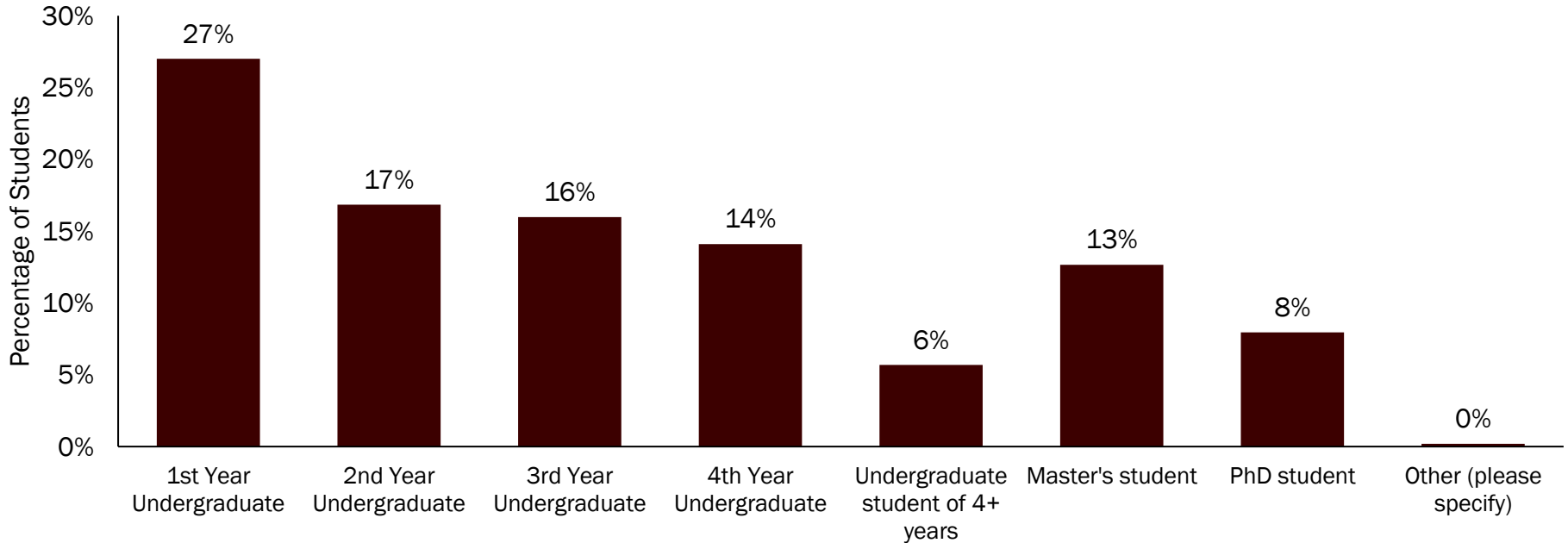
Are you an international student?





Responses: 3480

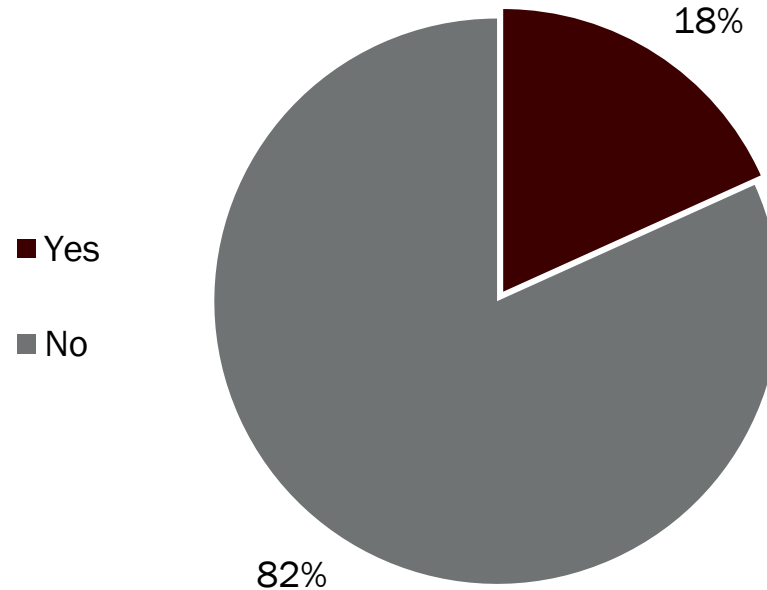
Which of the following most accurately represents your class at Texas A&M University?



Responses: 3480



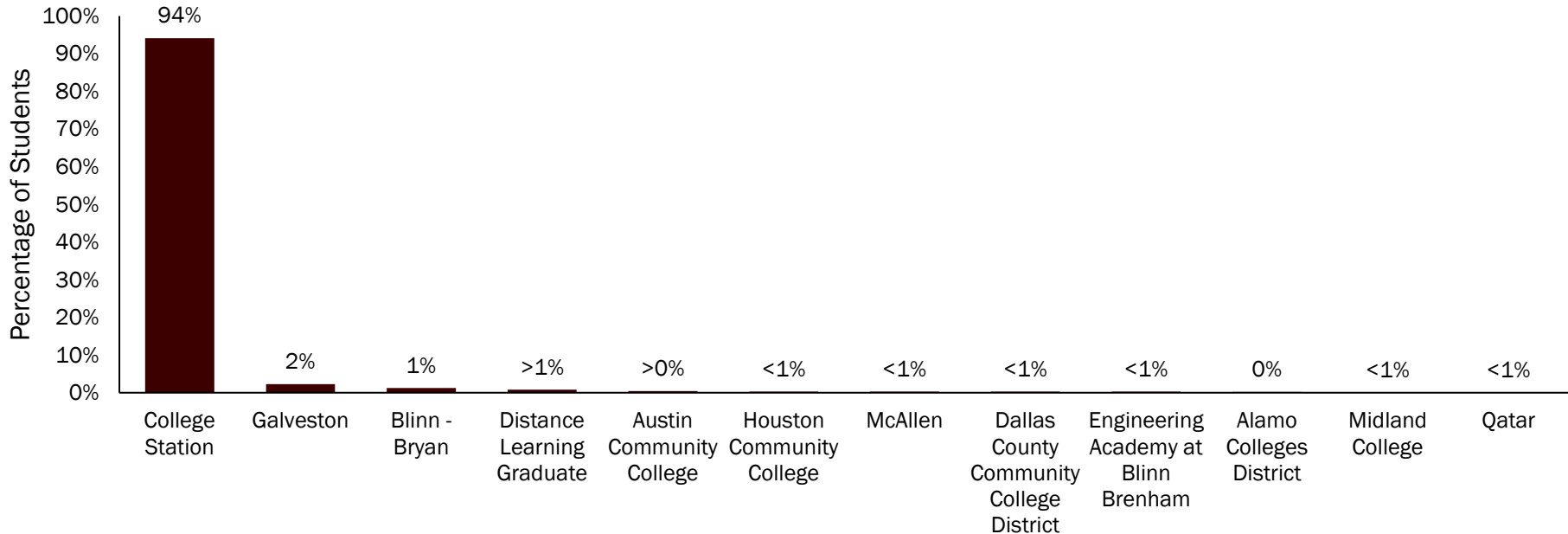
Are you graduating in December 2021 or May 2022?





Responses: 3480

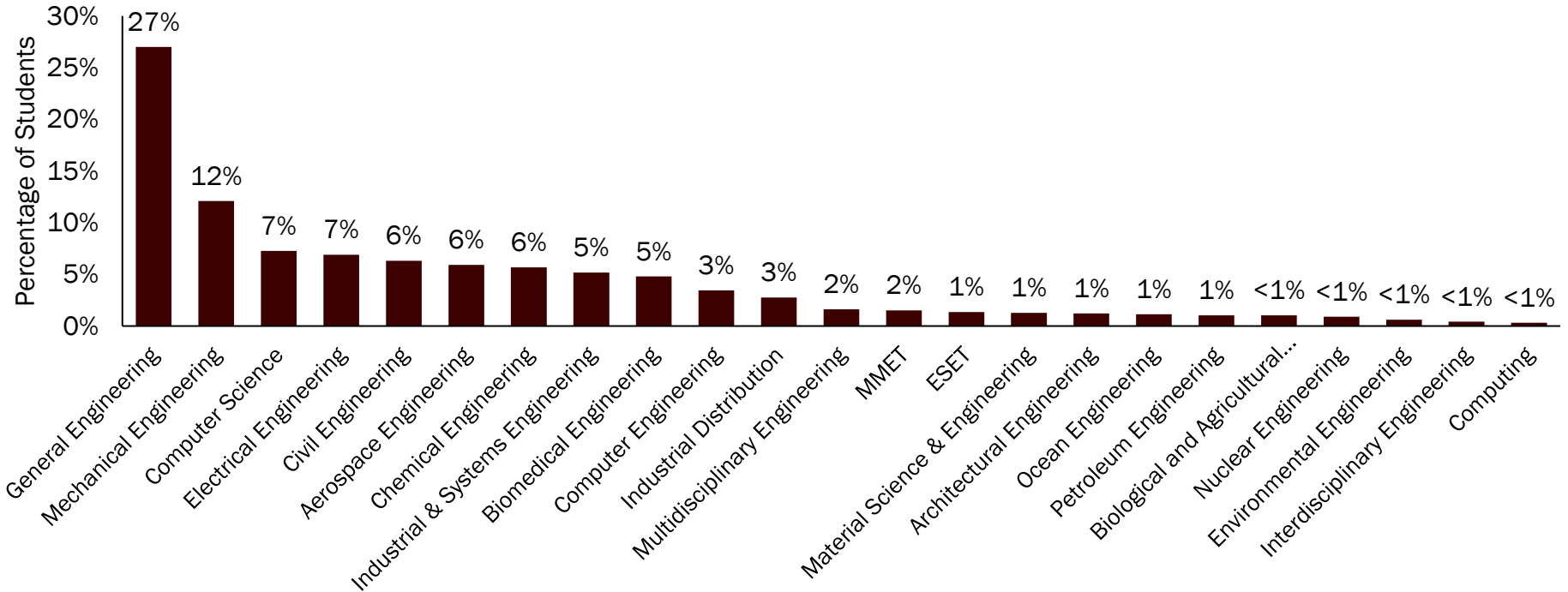
At which campus do you take the majority of your courses?



Asked to undergraduate students only
Responses: 2749



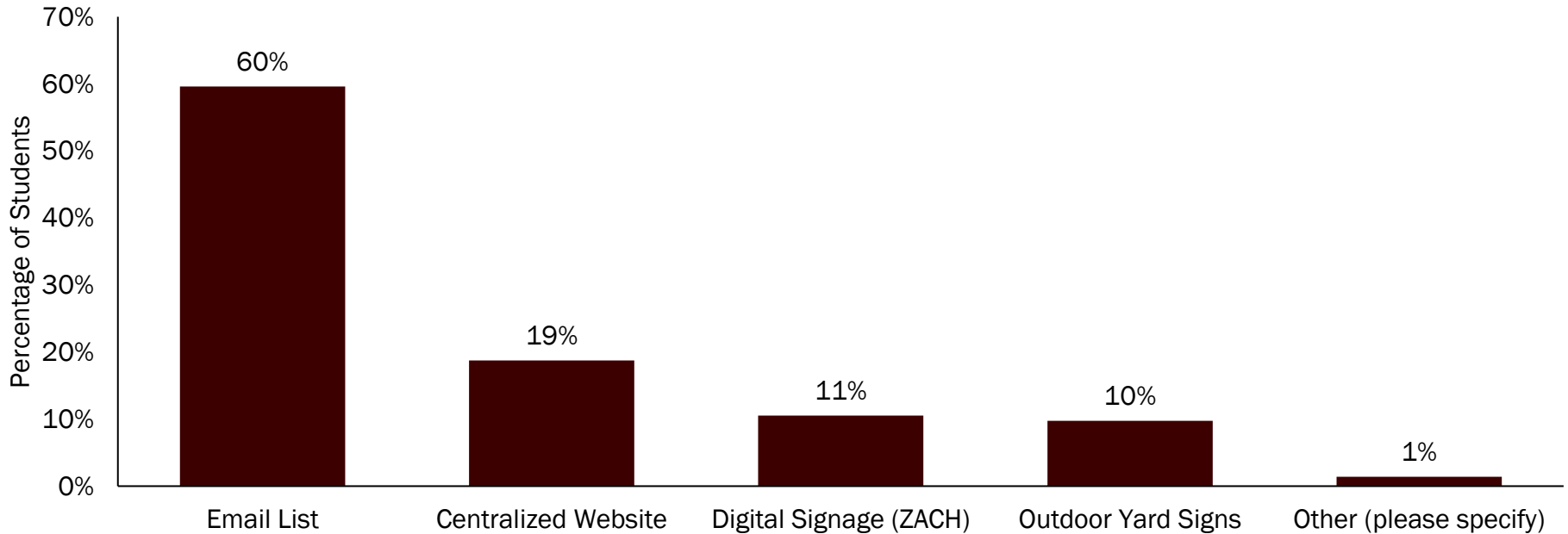
What is your major?





Responses: 5294

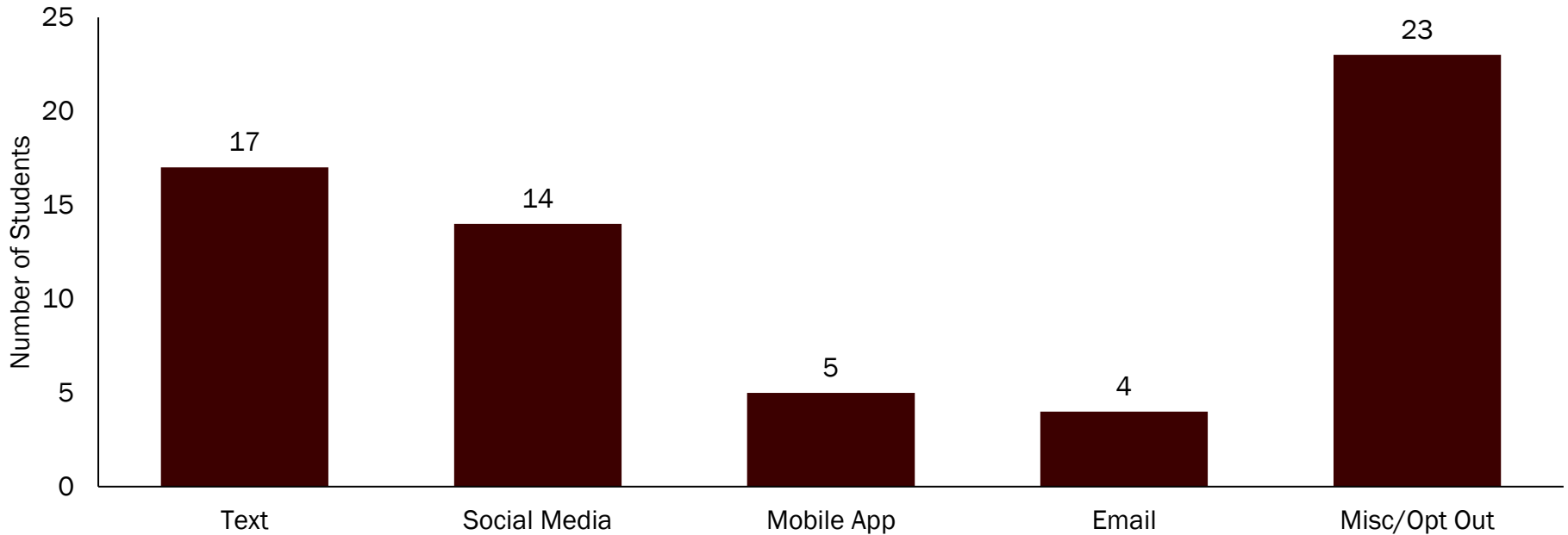
How would you prefer to receive information about events happening around the College of Engineering? (*Select all that apply*)





Responses: 63

How would you prefer to receive information about events happening around the College of Engineering? – *Other (please specify)*

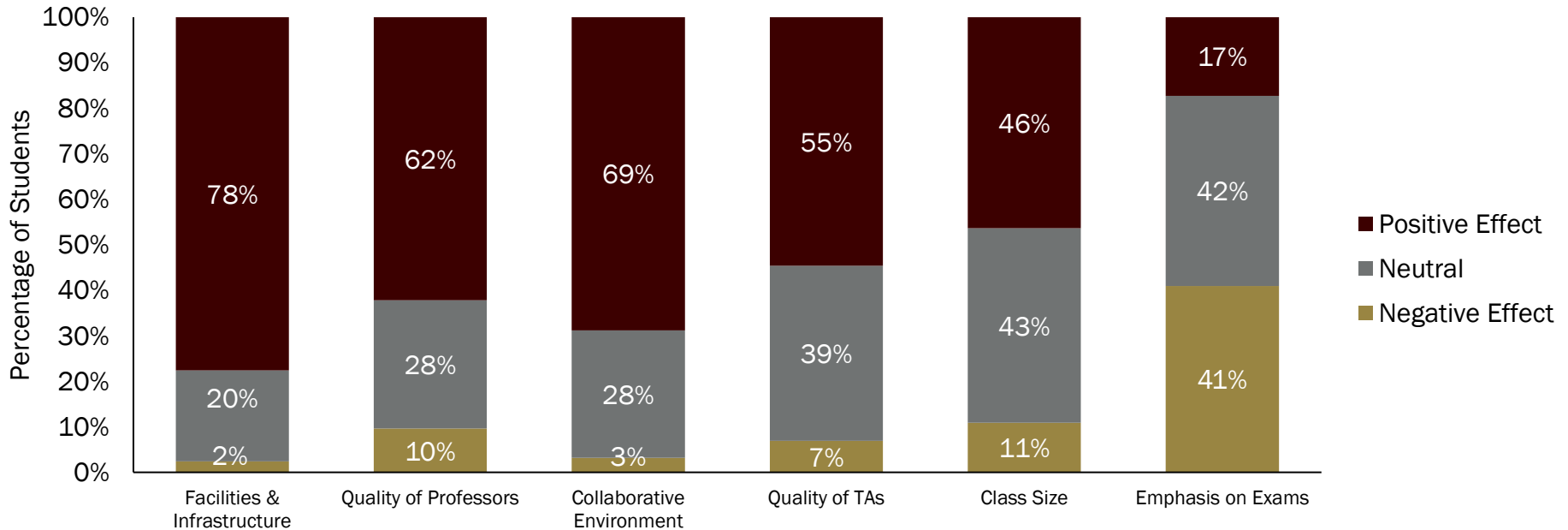


Undergraduate Student Questions

Asked to all undergraduate students

Asked to undergraduate students only
Responses: 2662

Please indicate the effect that each of the following College of Engineering attributes has on your undergraduate student experience.



Asked to undergraduate students only
Responses: 2662

Please indicate the effect that each of the following College of Engineering attributes has on your undergraduate student experience. (*Open Ended*)

Emphasis on Exams

- "I think more projects rather than just exams could allow a more real-world application of our major."
- "When I go into interviews they care about projects not how exams went. They ask me about how a project went not how I studied for some exam."

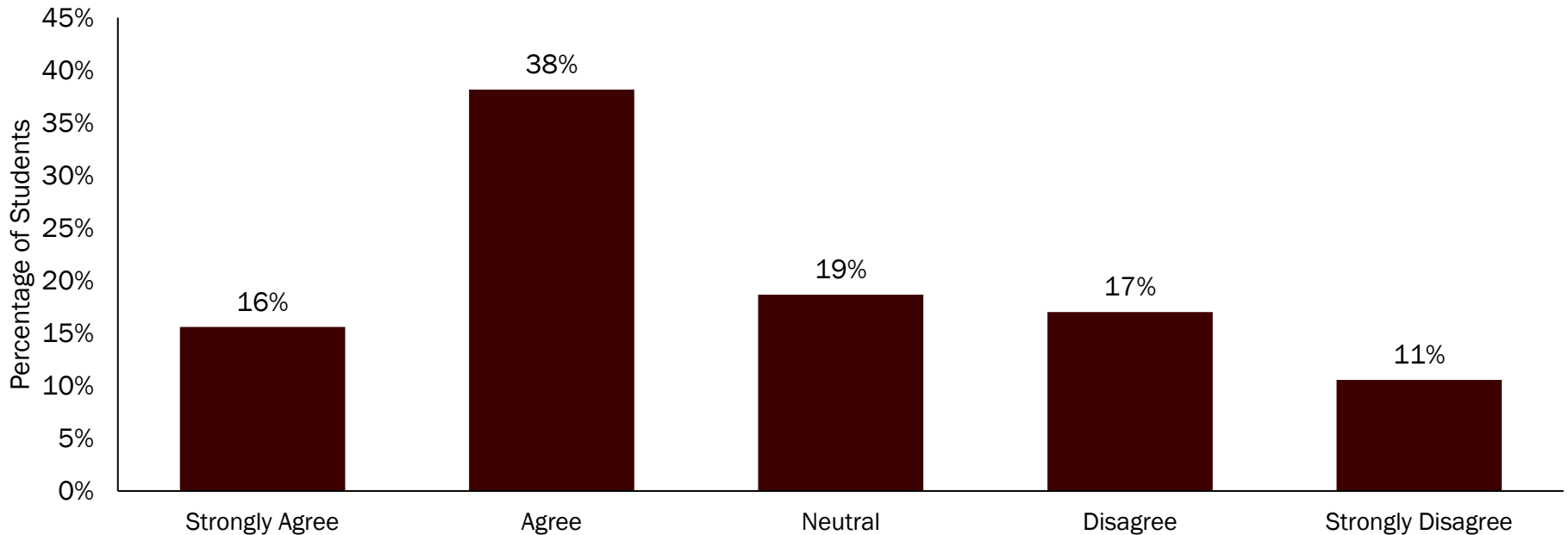
Class Size

- "From what I have personally encountered, the class size makes it difficult to connect to a deeper level with my professor in simply the class setting. However, I enjoy how most classes encourage us to seek each other within the student body."

Asked to undergraduate students beyond their first year
Responses: 1465



Please indicate how well first year coursework adequately prepared you for your upper-level engineering coursework.



Asked to undergraduate students beyond their first year
Responses: 639



Explain your reasoning for how adequately the ENGR 102 coursework prepared you for your upper-level coursework. (*Open Ended*)

Disconnect Between Labs and Lectures

- “There is such a disconnect between ENGR lectures and ENGR labs. Retainment of this information was minimal for me.”

Issues with Course Focus

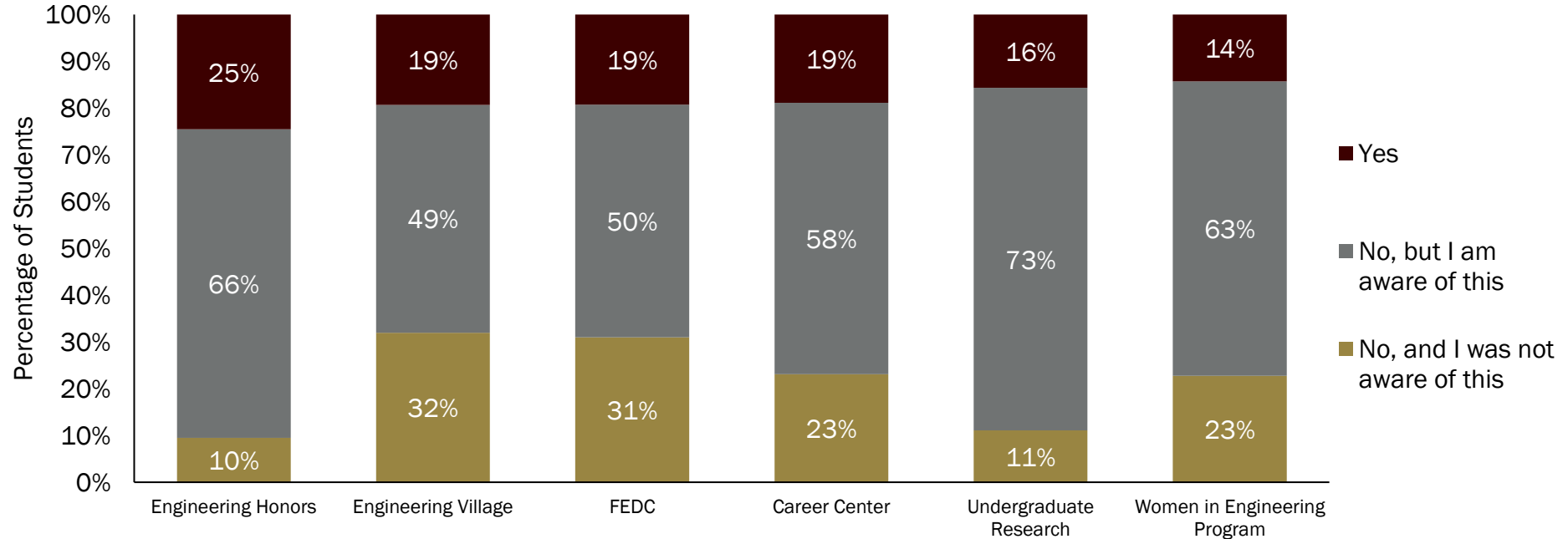
- “ENGR 102 was split between trying to give students transferable skills for later on in their engineering career and introducing them to the different engineering disciplines. By splitting the focus of the class, I don't think that either topic was thoroughly covered.”

Beneficial Content

- “Programming in python was crucial and is something that I still use often. 216 had some topics that I am currently practicing such as statics.”

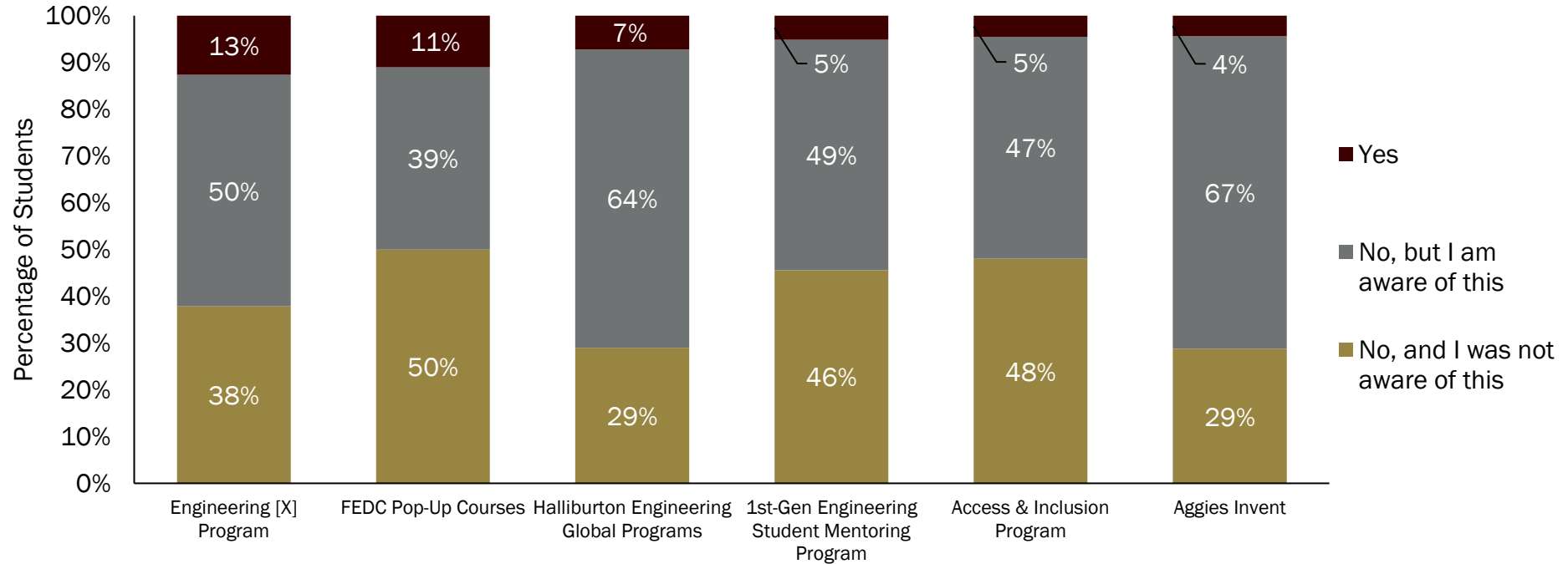
Responses: 2624

Have you used the following Academic Enrichment Programs?



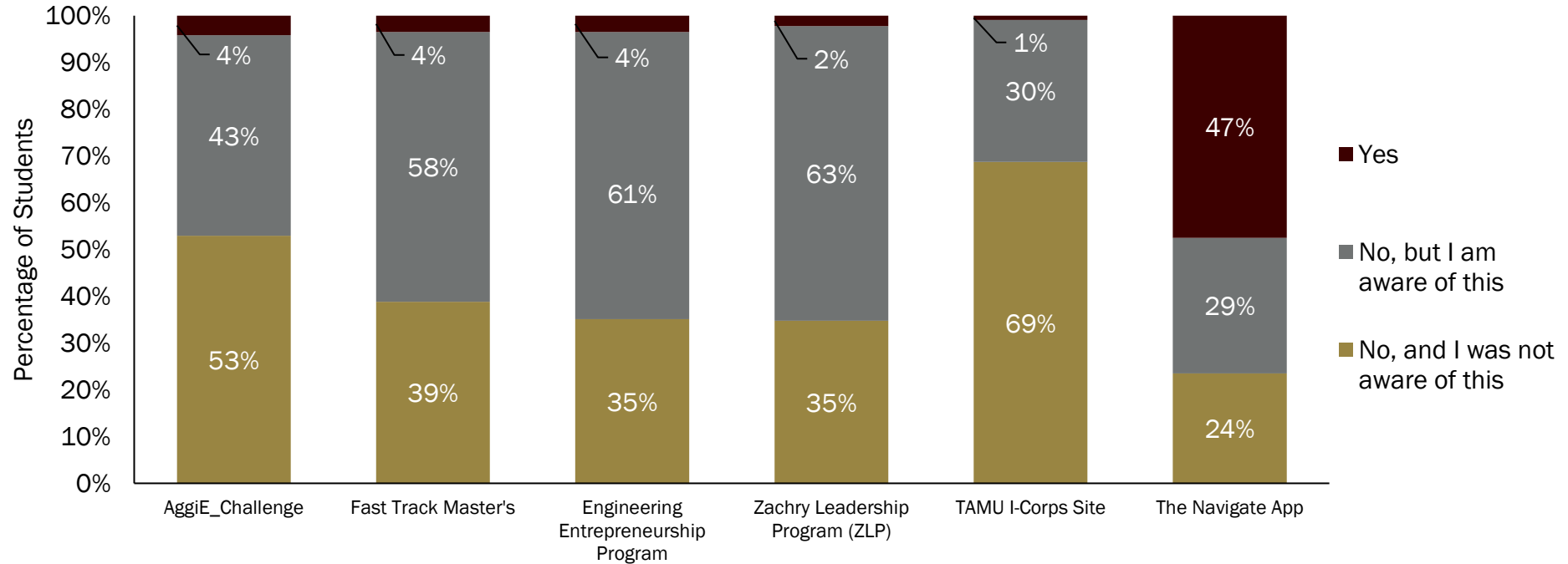
Responses: 2624

Have you used the following Academic Enrichment Programs?



Responses: 2624

Have you used the following Academic Enrichment Programs?





Responses: 123

If you have any comments regarding the Academic Enrichment Programs above, please provide those here. (*Open Ended*)

Benefits for Freshman

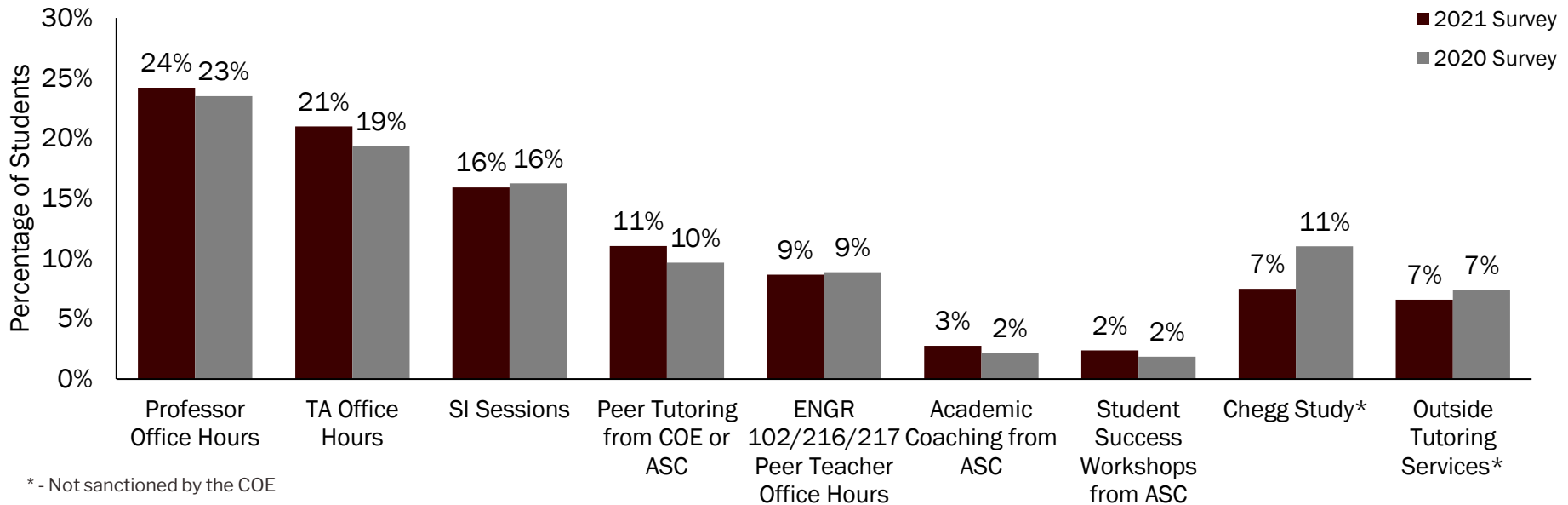
- “These have been the most influential programs in my undergrad... Thank you and keep getting engineers involved from FRESHMAN year. That's when they have the largest effect.”

Time Constraints with Coursework

- “Most of these programs are very helpful in developing other skills. My desired career path and current coursework has only allowed for minimal usage of the FEDC during a single ESET class. Time restraints due to ESET scheduling (labs do not count towards semester hours, every class requires a lab) has not allowed me to participate in most of these programs.”

2021 Survey Responses: 6785
2020 Survey Responses: 6972

Select all of the following Academic Support Services that you have utilized. (*Select all that apply*)

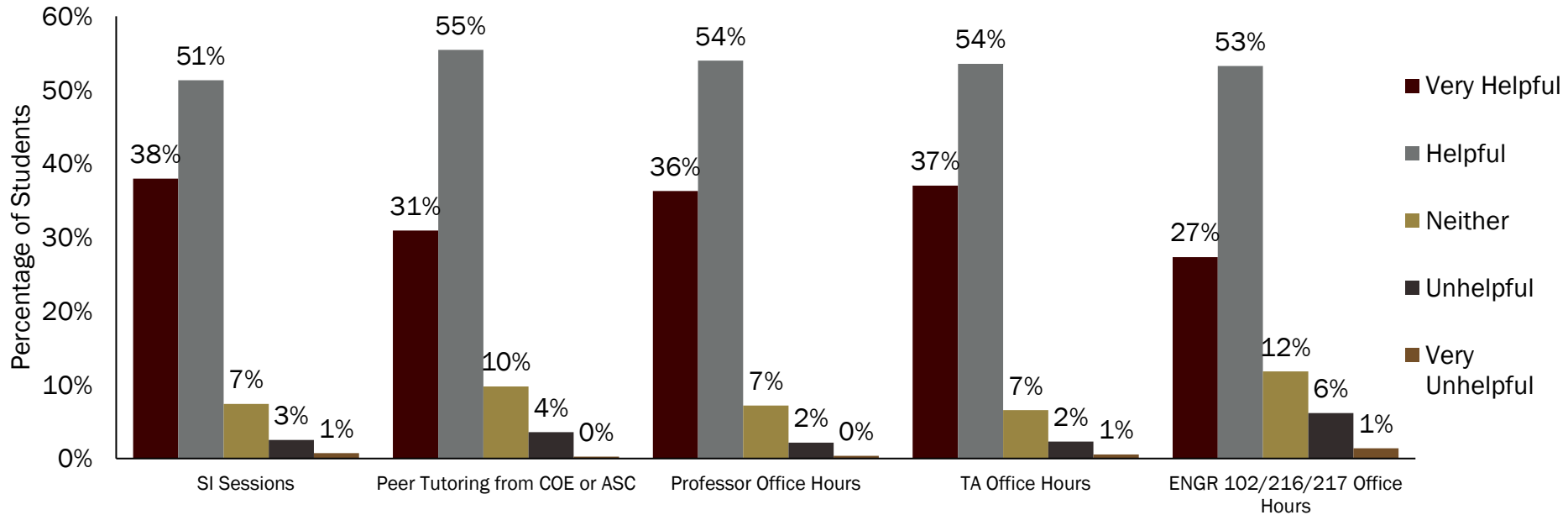


Asked to students who used 1 + Academic Support Service

Responses: 6785



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



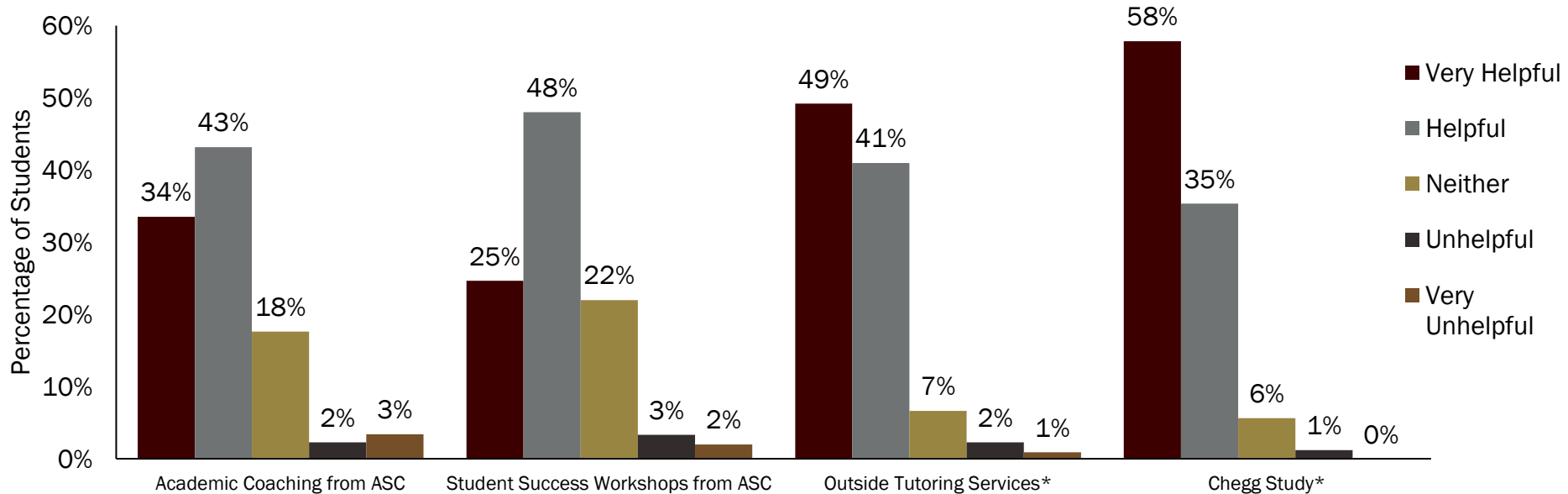
* - Not sanctioned by the COE

Asked to students who used 1 + Academic Support Service

Responses: 6785



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



* - Not sanctioned by the COE



Responses: 306

What additional Academic Support Services and resources would be helpful in you succeeding academically? (*Open Ended*)

Aid for Upper-Level Courses

- “Please add more upper level major specific tutoring opportunities to the ASC Peer tutoring. Also make more SI sessions for upper level courses”

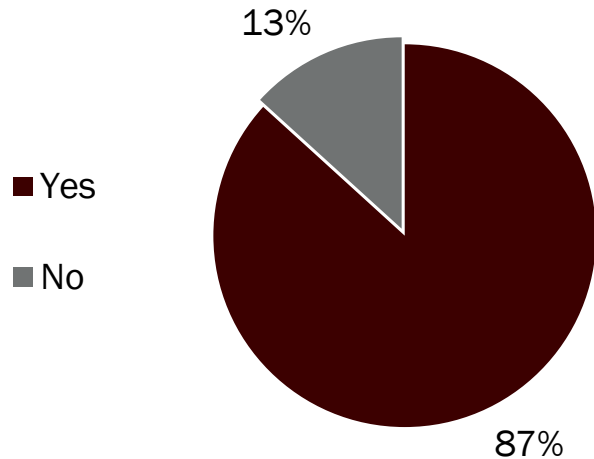
Approved Alternatives to 3rd Party Websites such as Chegg Study

- “Chegg has helped me the most when learning subjects. The step by step procedures let me go at my own pace, and the explanations allows me to know why we did that certain step.”
- “Chegg only helped depending on how you used it. It is very easy to overly rely on.”



Responses: 2588

When registering for the Fall 2021 semester, were you able to register for all of the courses you needed?



Top courses students could not register for: (*Open Ended*)

1. ENGL 210 (11)
2. ENGR 217 (7)
3. MEEN 381 (5)
4. MEEN 464 (5)
5. AERO 212 (5)

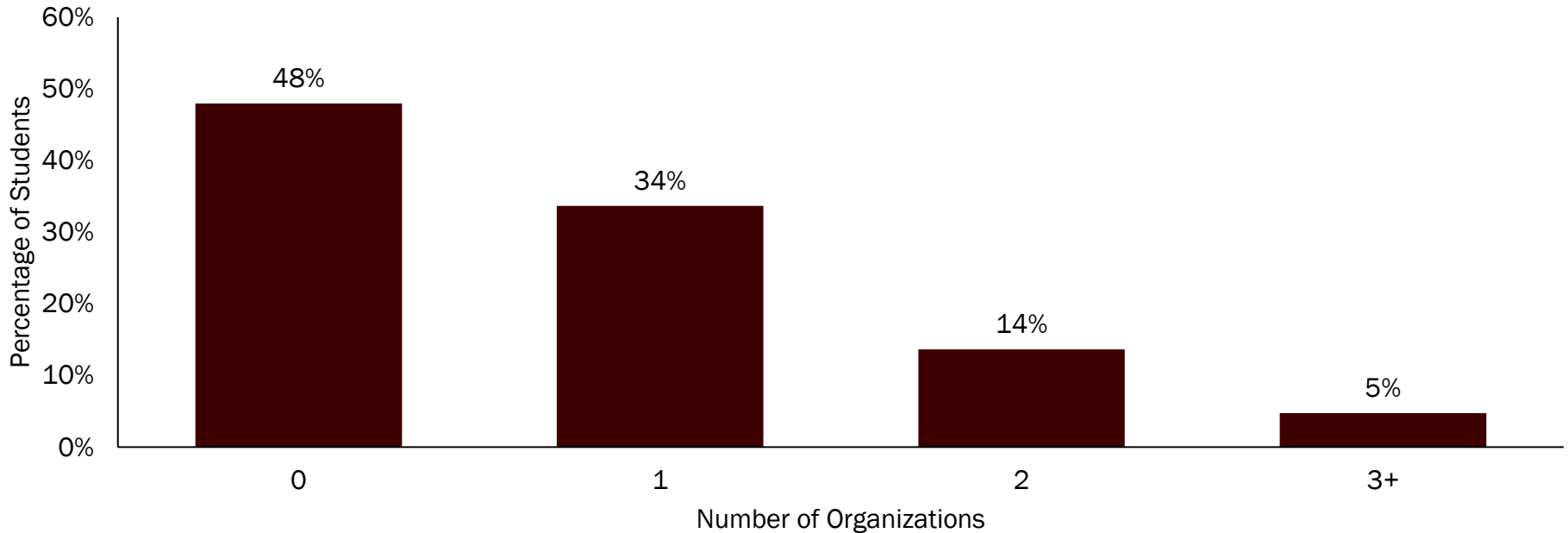
Engineering Student Organization Questions

Asked to all students



Responses: 3556

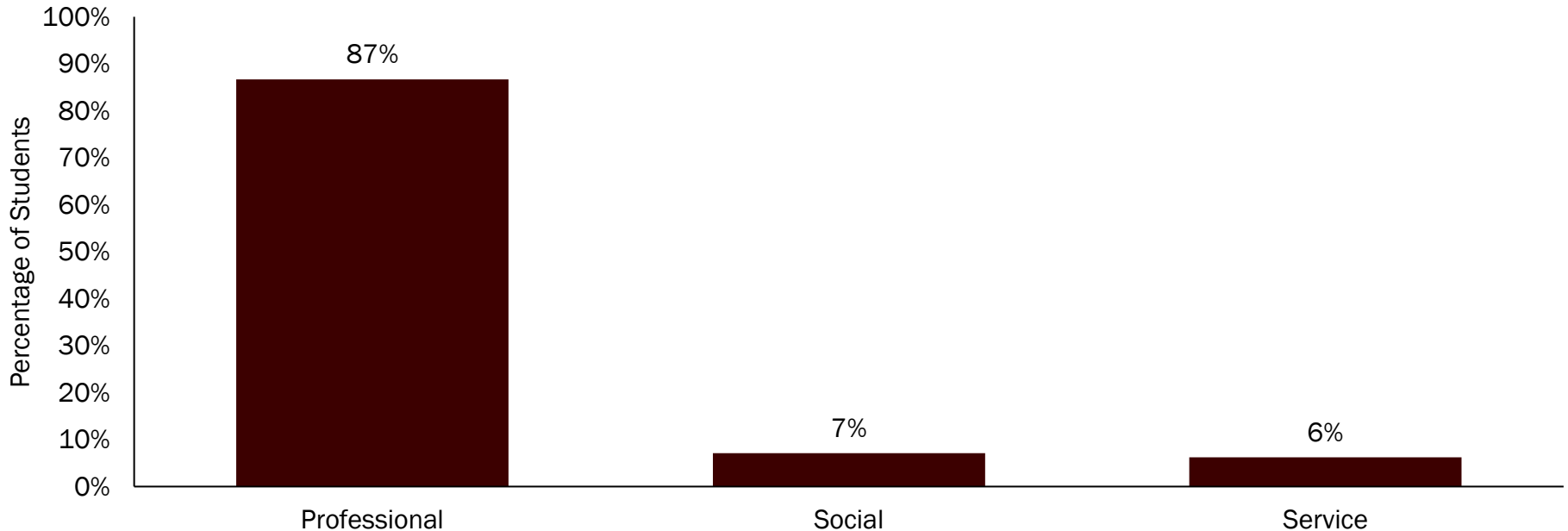
What Engineering Student Organizations and/or societies are you currently involved in? *(Select all that apply)*





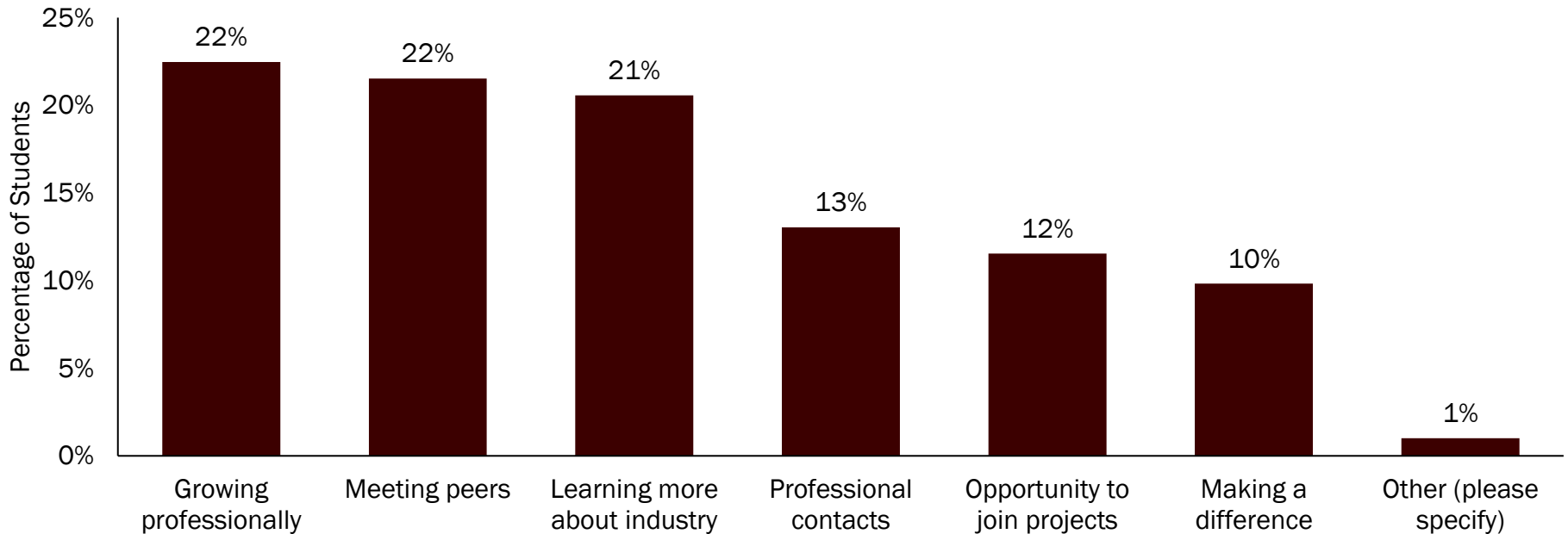
Responses: 2684

What Engineering Student Organizations and/or societies are you currently involved in? *(Select all that apply)*



Asked to students involved in 1 or more ESO
Responses: 6058

Why did you become involved in your student organization(s)?
(Select all that apply).



Asked to students involved in 1 or more ESO
Responses: 206



Why did you become involved in your student organization(s)? –
Other (please specify)

Personal Development

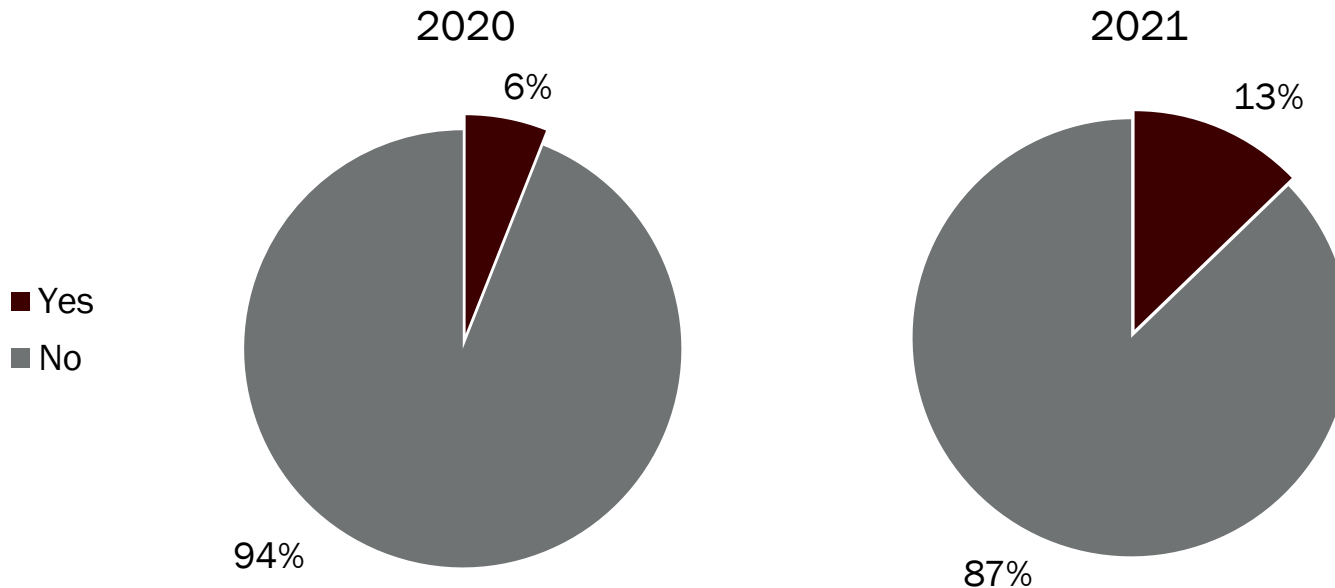
- “Interact with professors outside the classroom and to gain mentoring experience.”
- “Gain advice from engineering upperclassmen.”

Balancing Rigorous Course Load

- “I was trying to avoid academic burn out because of the amount of work in Engineering.”
- “Felt that I was not experiencing what I thought was fun about engineering.”

Responses: 3420

Did you attend the Engineering Student Organization (ESO) Open House this semester on Monday, September 13th?



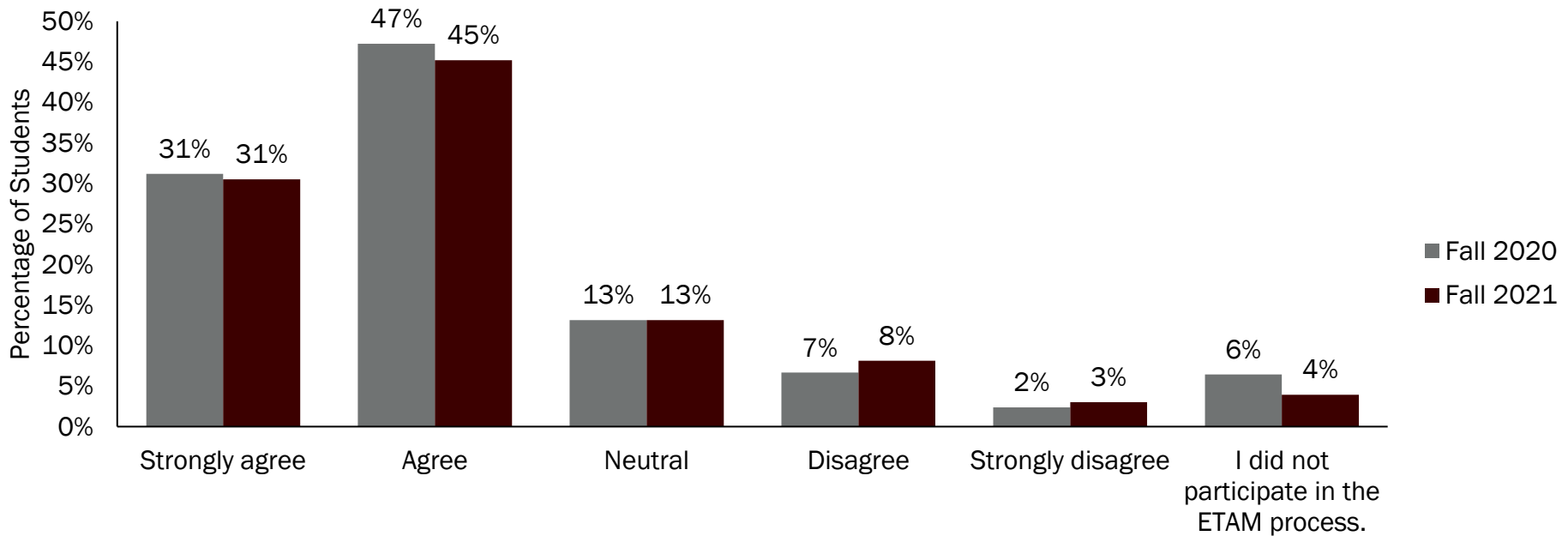
Entry-to-a-Major Questions

Asked to all students who said that they had completed
ETAM



Responses: 1528

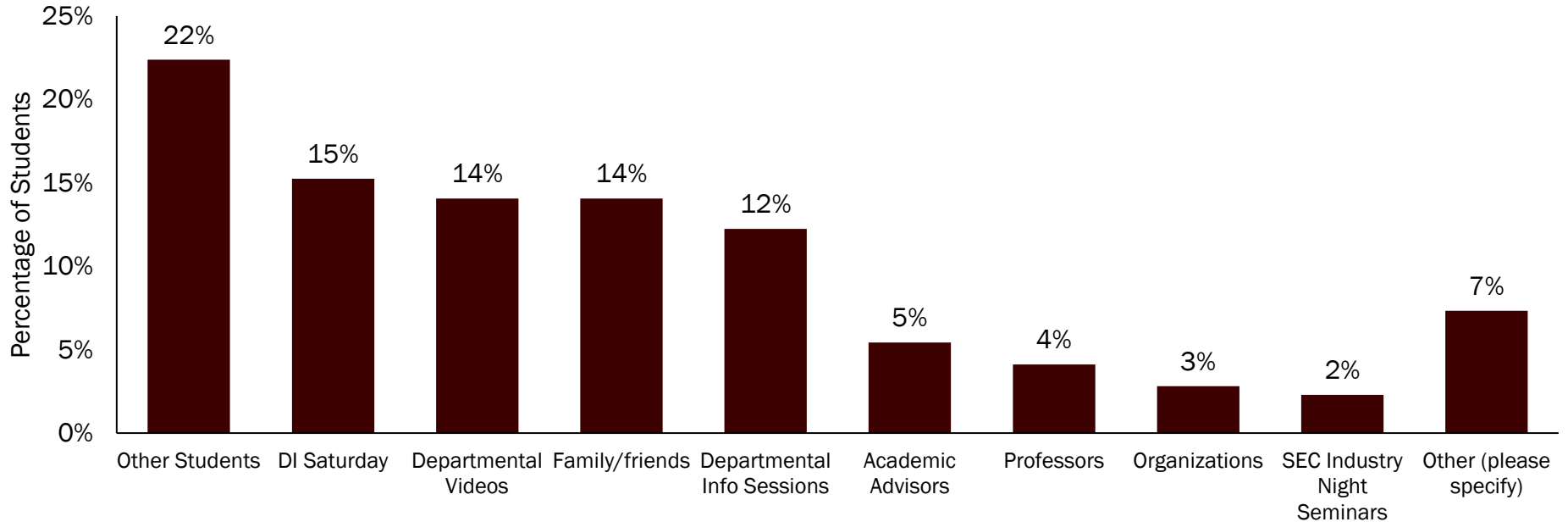
I receive(d) sufficient information about the different majors to make an informed decision about my major.





Responses: 1528

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





Responses: 106

During your first year at Texas A&M University, what is/was the most helpful source of information when applying to your major? – *Other (please specify)*

Personal Research

- “I already knew what I wanted to choose going into college. This was based on independent research.”
- “I learned more through my own research on the different majors, especially for the majors that are not talked about much such as Industrial Engineering.”

Opinions Regarding ETAM

- “I already knew my major and the ETAM process only delayed my entry, without it I could have graduated early due to AP credits”
- “I came to A&M with a major picked out and am still unclear on the utility of ETAM.”



Responses: 106

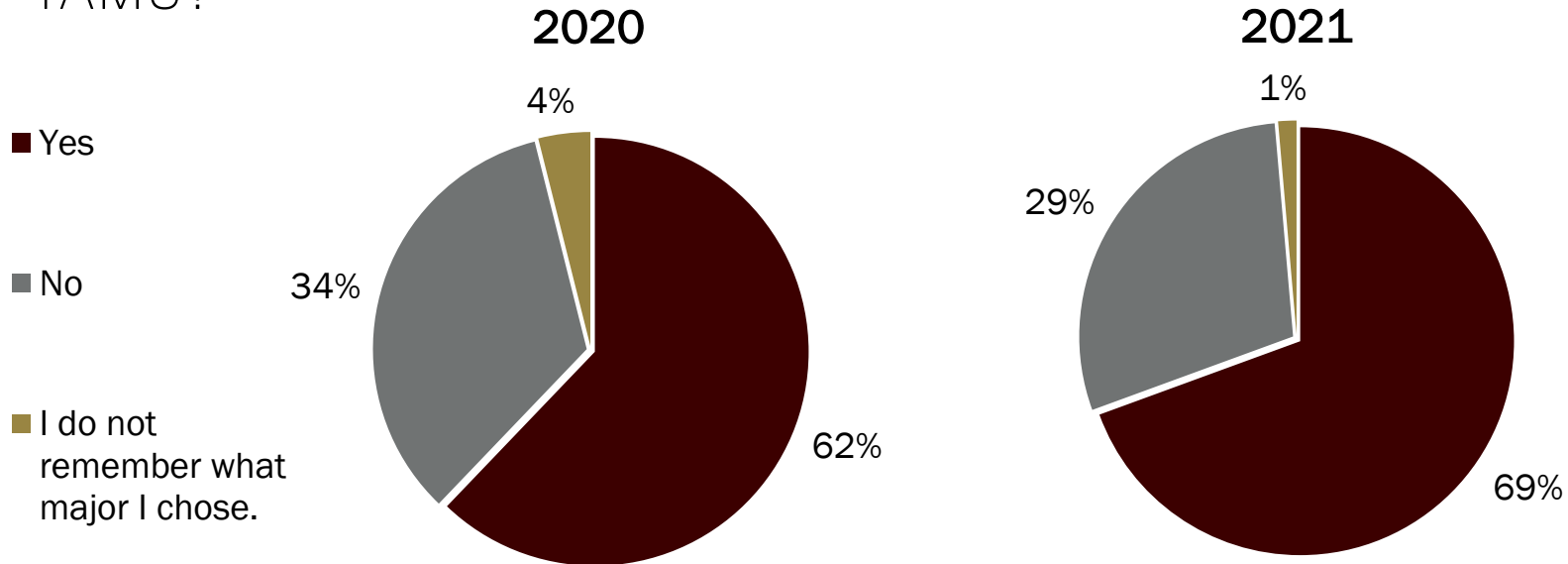
During your first year at Texas A&M University, what is/was the most helpful source of information when applying to your major? – *Other (please specify)*

Positive Feedback from ENGR/CLEN 181

- “I would say personal research, my CLEN 181 professor was very helpful in educating about different majors.”
- “ENGR 181 Department Information seminars.”

Asked to 2nd year undergraduate students
Responses: 590

To your memory, when undergoing the ETAM process, was your first-choice major the same major you chose when you applied to TAMU?



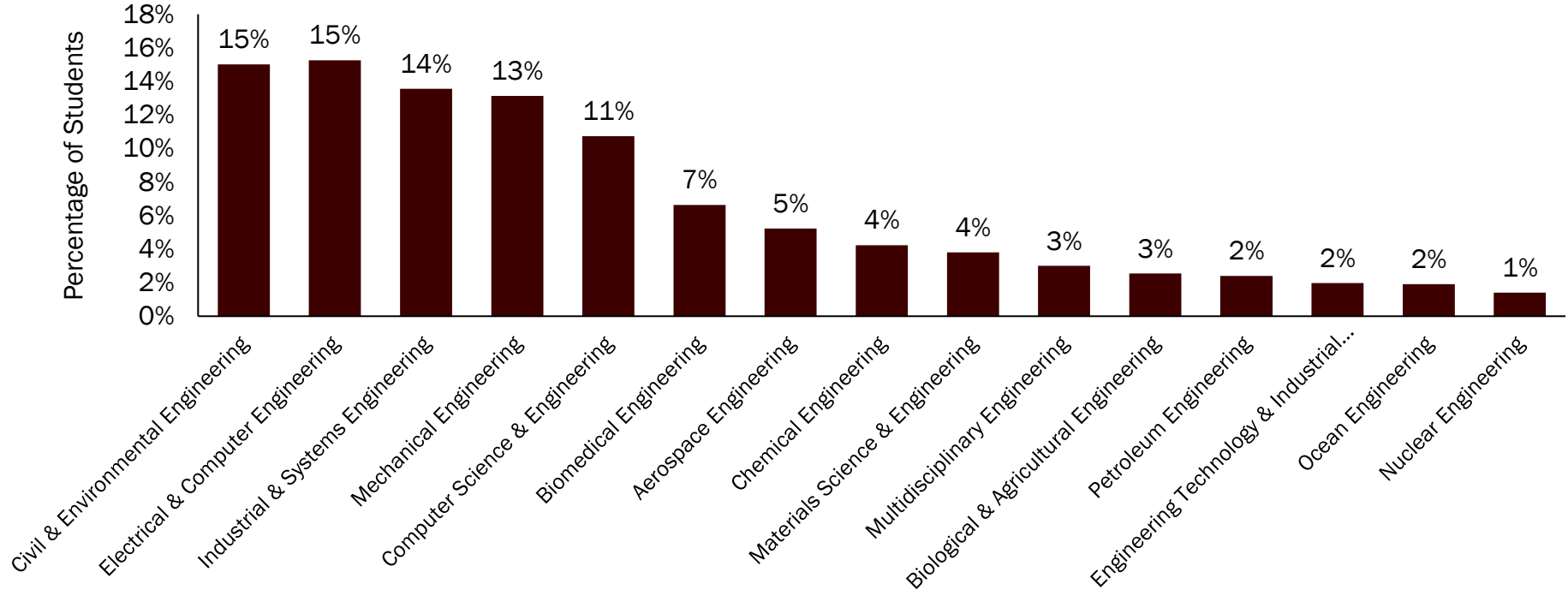
Graduate Student Questions

Asked to Master's & PhD students

Responses: 708



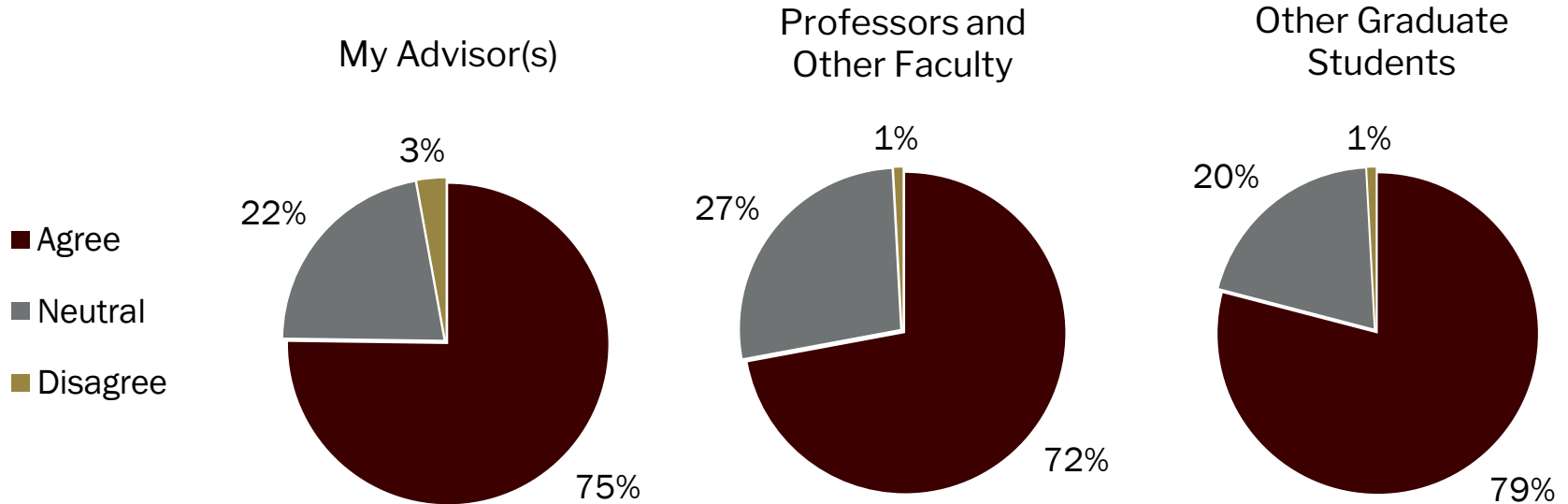
What department are you in?





Responses: 702

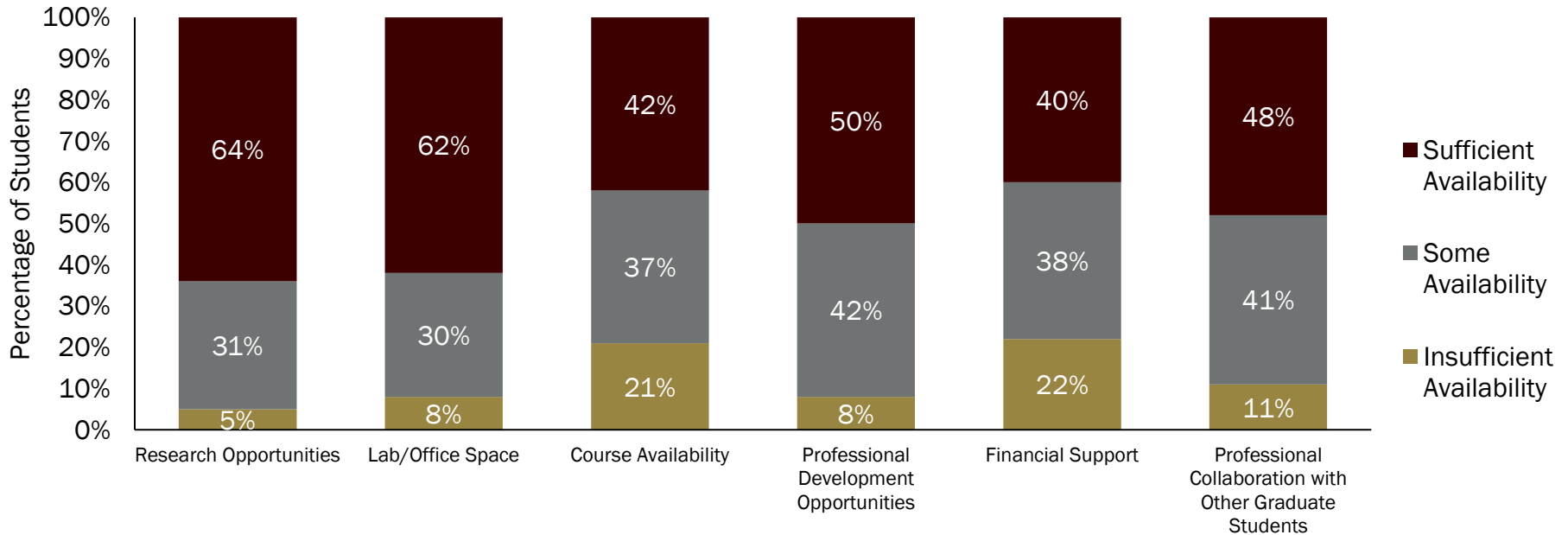
I have a positive relationship with:





Responses: 461

Please rate the extent to which the following resources are available to you as a Graduate Student.





Responses: 72

Please provide any additional feedback you may have on the availability of resources to you as a Graduate Student. (*Open Ended*)

Virtual Format As an Option

- “Would appreciate more distance learning offerings (though this has already been improved upon greatly from a few years ago).”
- “It would be nice to find more ways to interact with other students as a distance student.”

Lack of Resources and Classes Offered

- “There are less courses available to choose from in terms on interest especially the spring semester.”
- “My research group doesn't have enough professors to offer classes in my area of study each semester, meaning I had take most of my classes in other areas of study. Potential employers have commented on this in my job interviews.”
- “Not all resources are marketed. Many a times I don't know that these resources are available for me to use.”

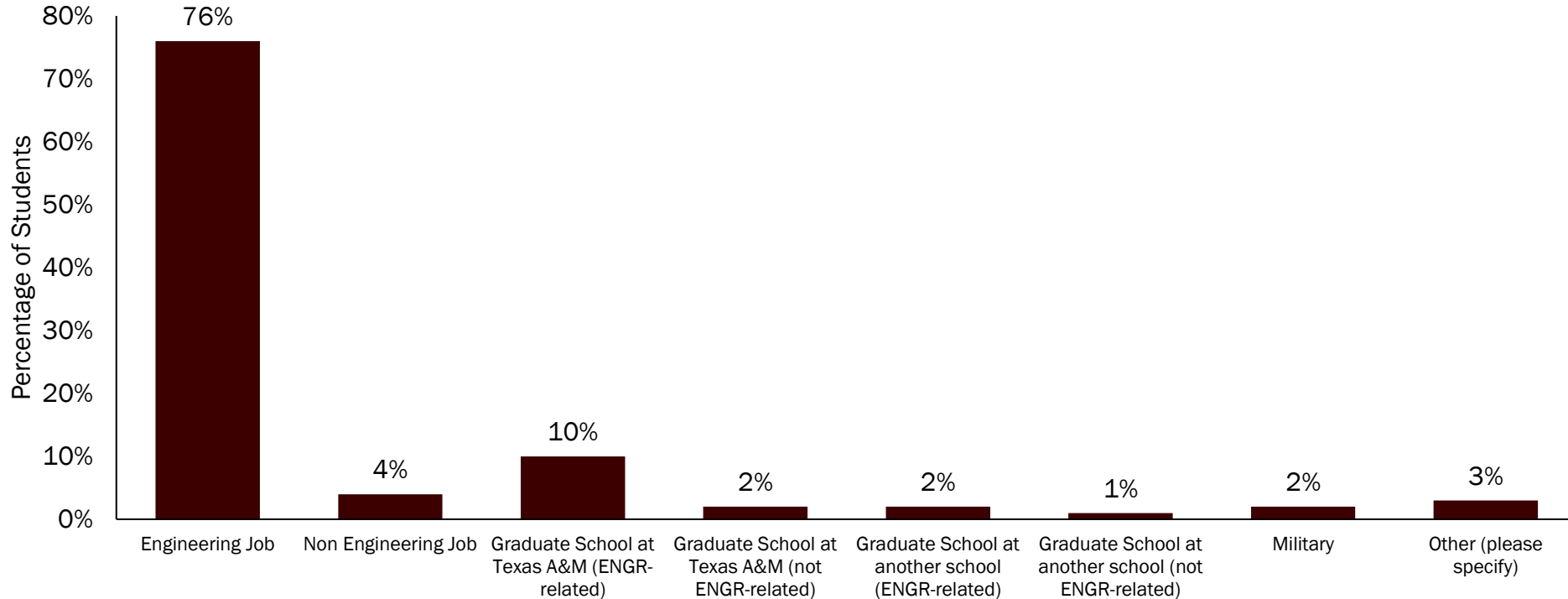
Post-Graduation Questions

Asked to students graduating in December 2021
or May 2022

Asked to graduating students
Responses: 615



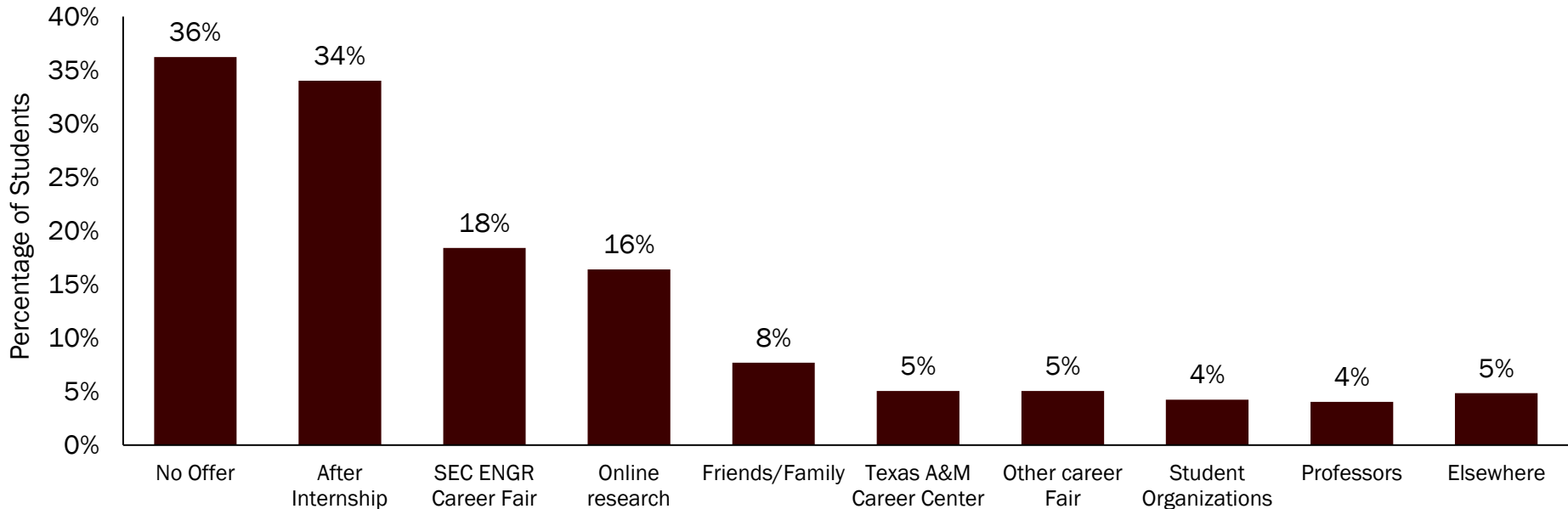
Which one of the following will you pursue after you graduate?



Asked to students pursuing full-time job opportunity
Responses: 494

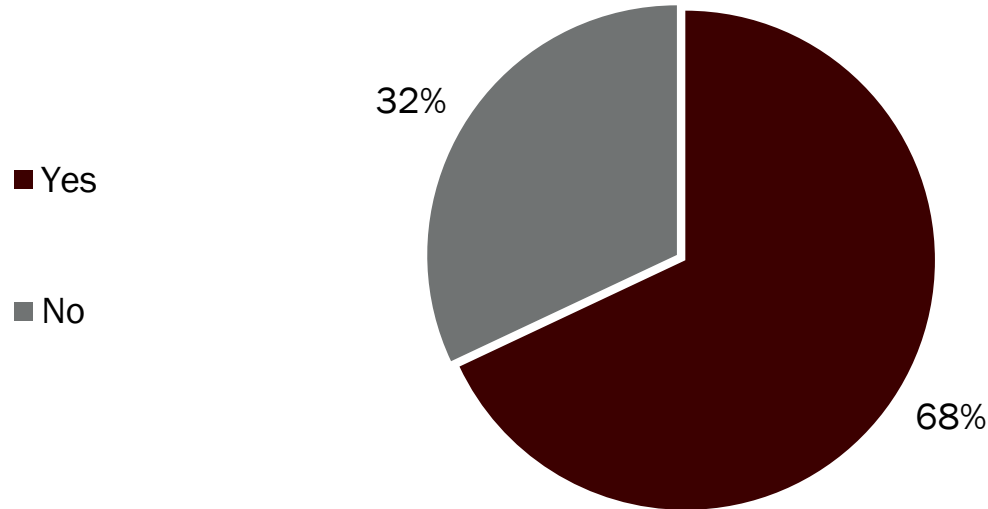


How did you obtain your full-time job opportunity? (Select all that apply)



Asked to students pursuing full-time job opportunity
Responses: 494

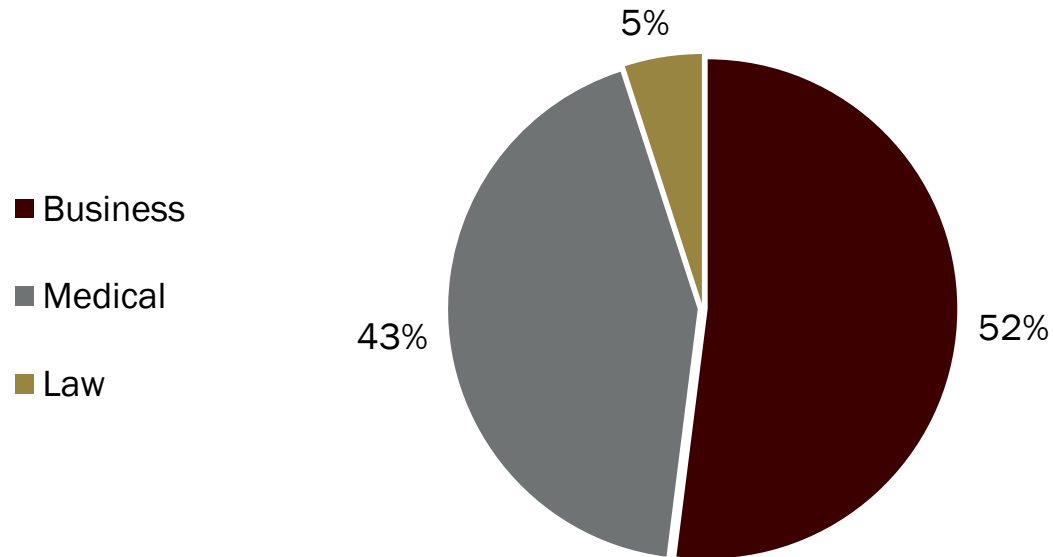
Were you given sufficient time (2 weeks) to make a decision regarding the employment offer?



Asked to students pursuing non-engineering grad school
Responses: 21

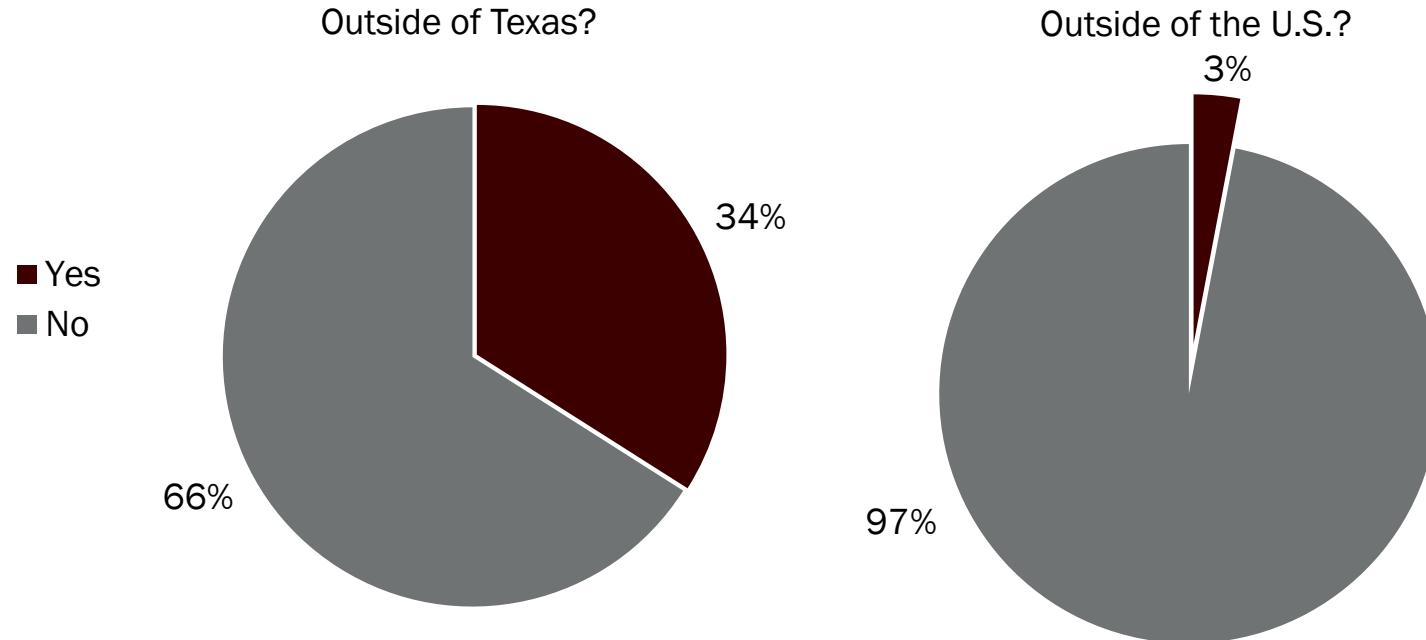


What kind of graduate school are you pursuing after you graduate?



Asked to students pursuing full-time job opportunity
Responses: 491

Is your full-time job opportunity outside of Texas? The United States?



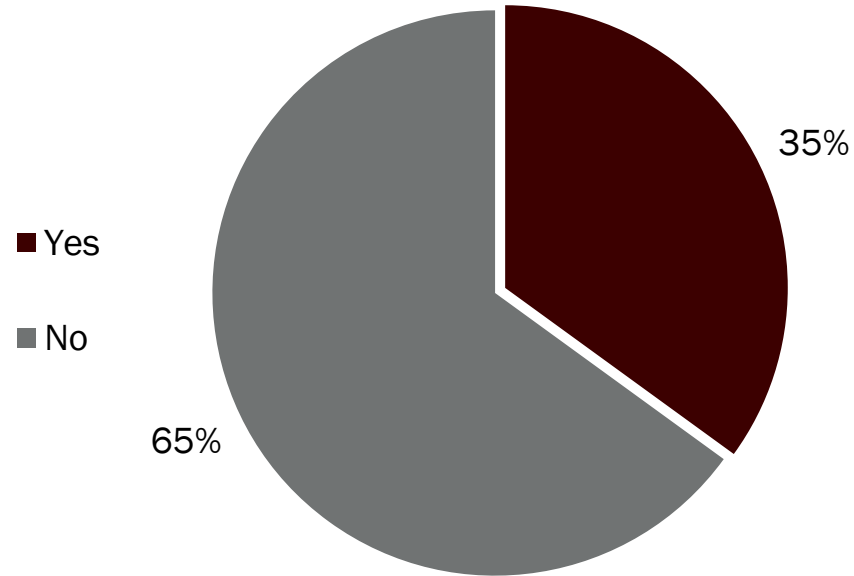
Internship and Professional Experiences Questions

Asked to all non-first year students

Responses: 2425



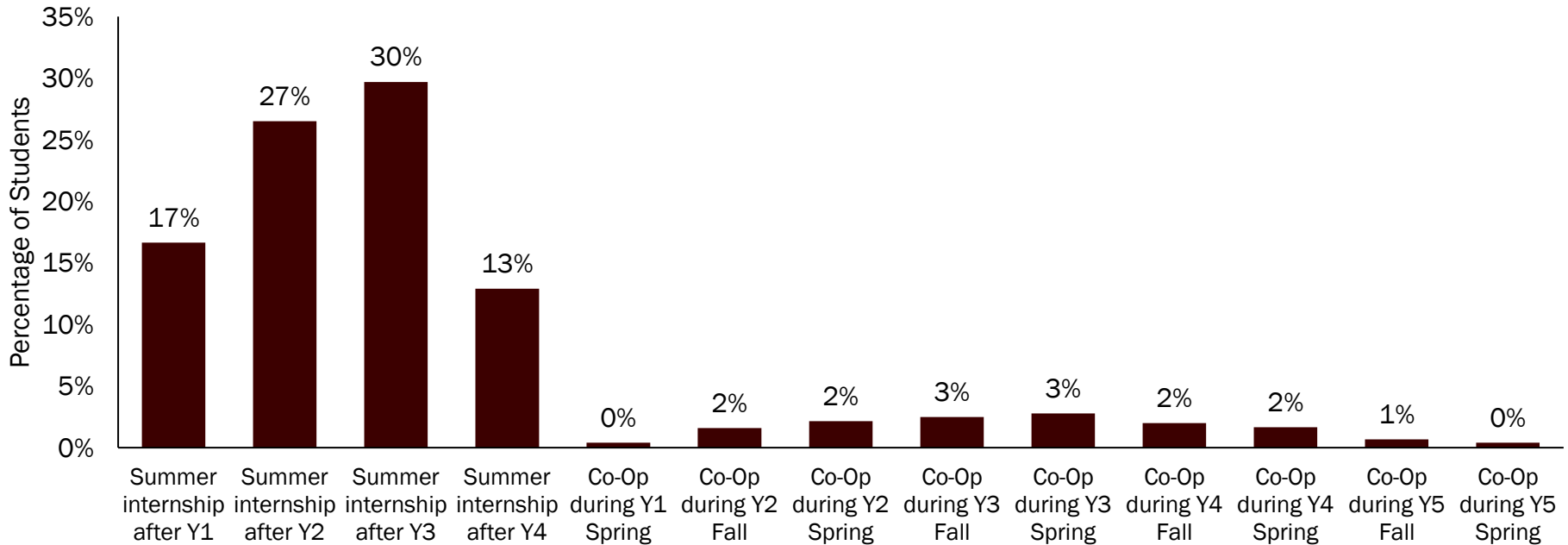
Have you completed an internship or co-op?



Asked to students who have completed an internship/co-op
Responses: 1441



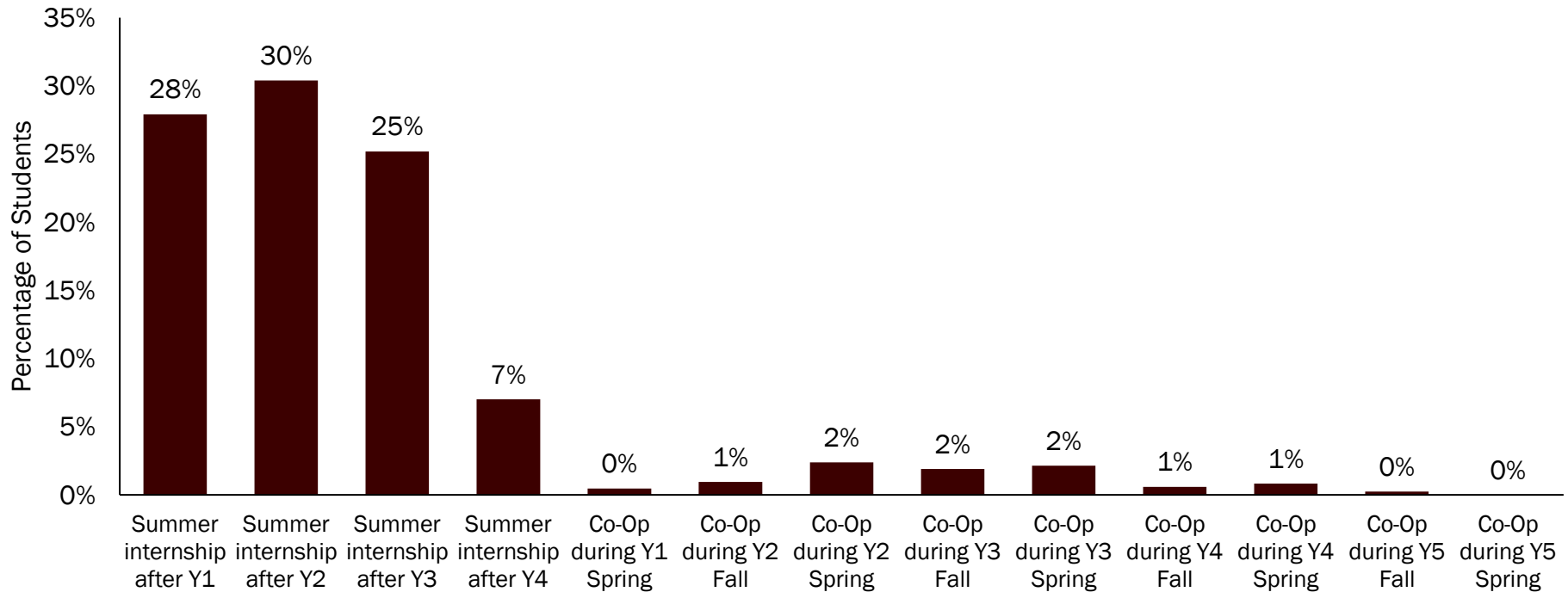
Classify your internship/co-op experience(s). (Select all that apply)



Asked to students who have completed an internship/co-op
Responses: 842



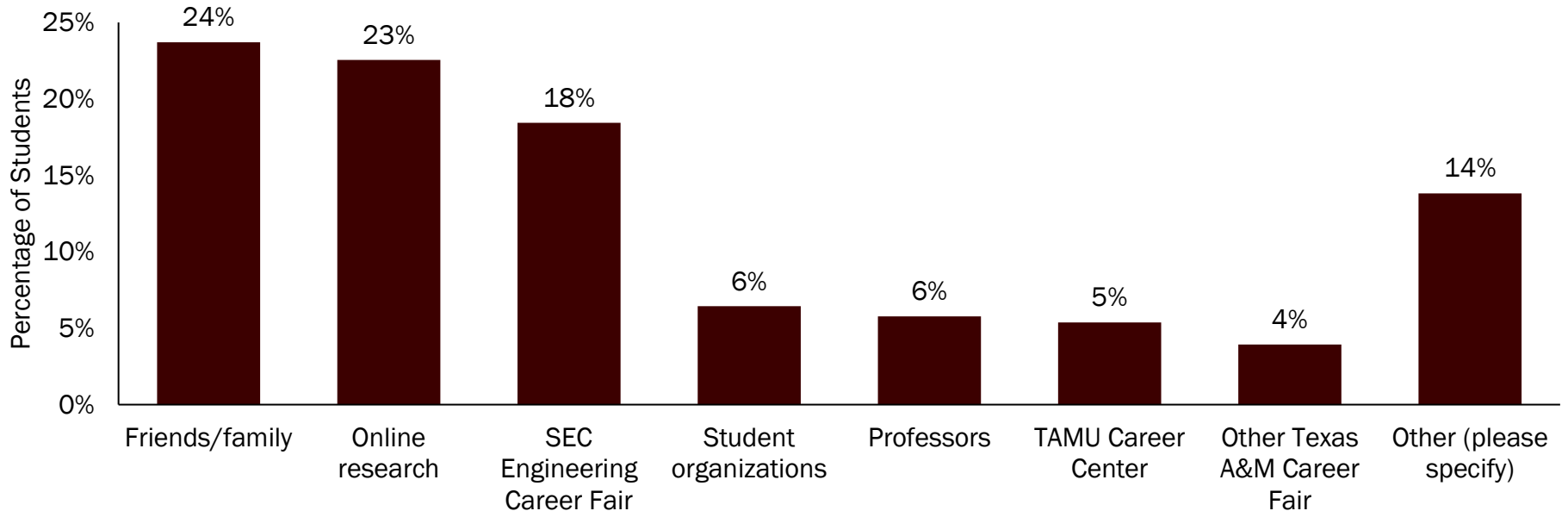
When was your *first* internship/co-op experience?



Asked to students who have completed an internship/co-op
Responses: 1042

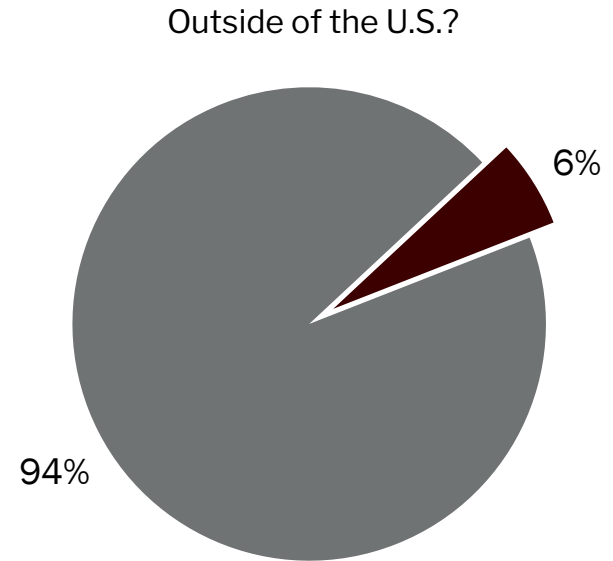
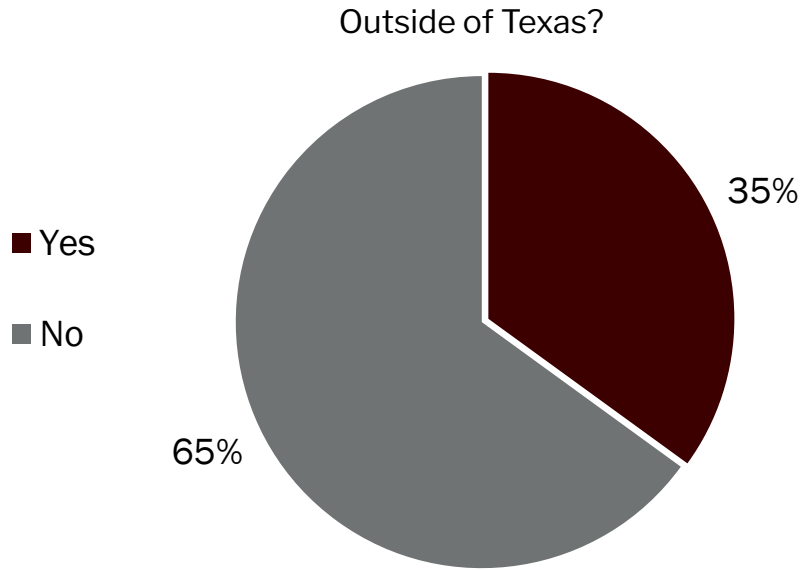


How did you obtain your internship/co-op experience(s)?
(Select all that apply)



Asked to students who have completed an internship/co-op
Responses: 842

Have you completed an internship/co-op experience outside of Texas? The United States?

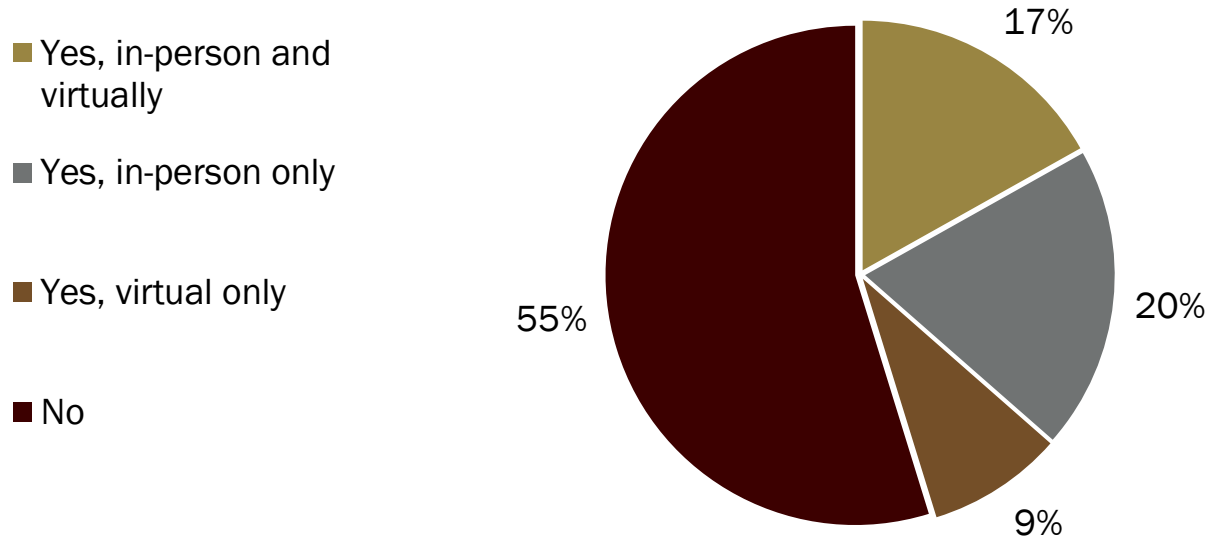


Career Fair Questions

Asked to all students

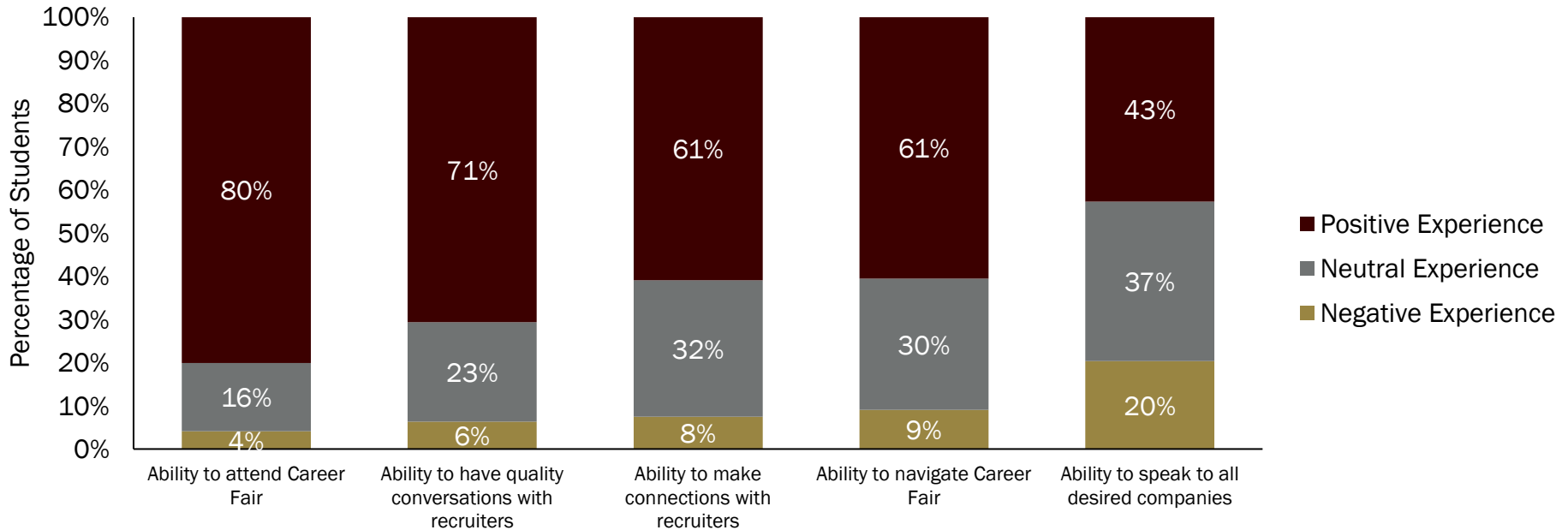
Responses: 3272

Did you attend the Fall 2021 SEC Engineering Career Fair?



Asked to students who attended the in-person Career Fair
Responses: 1185

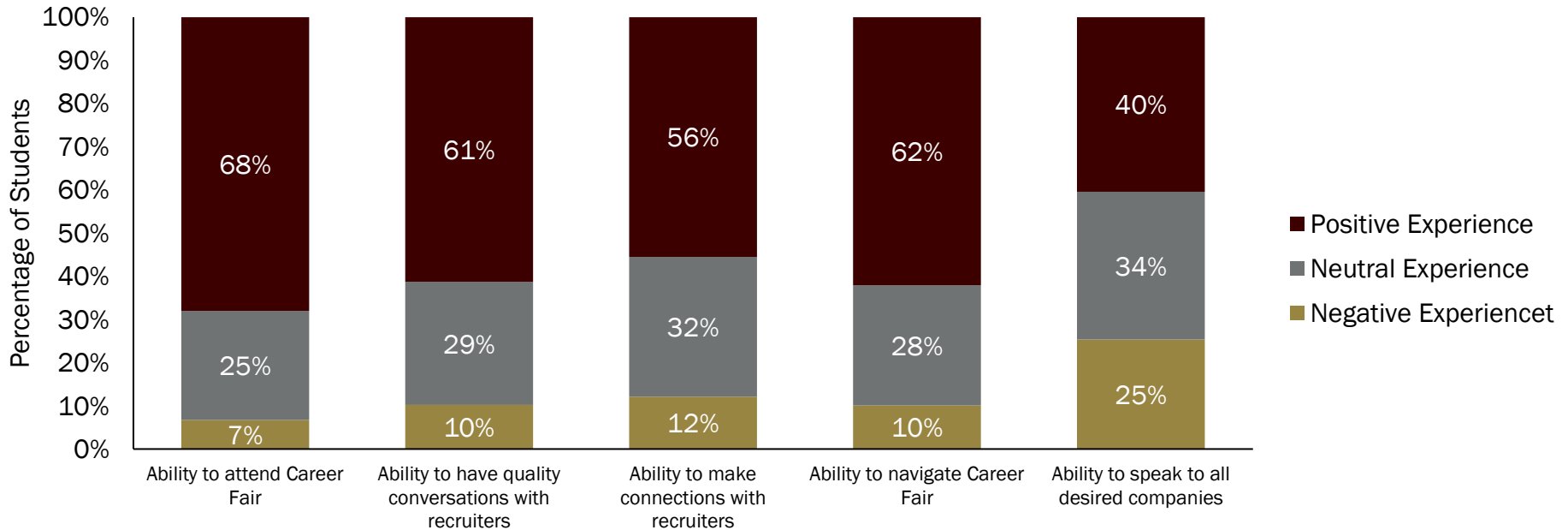
Please rate your experience of the following statements for the in-person Career Fair.



Asked to students who attended the virtual Career Fair
Responses: 834

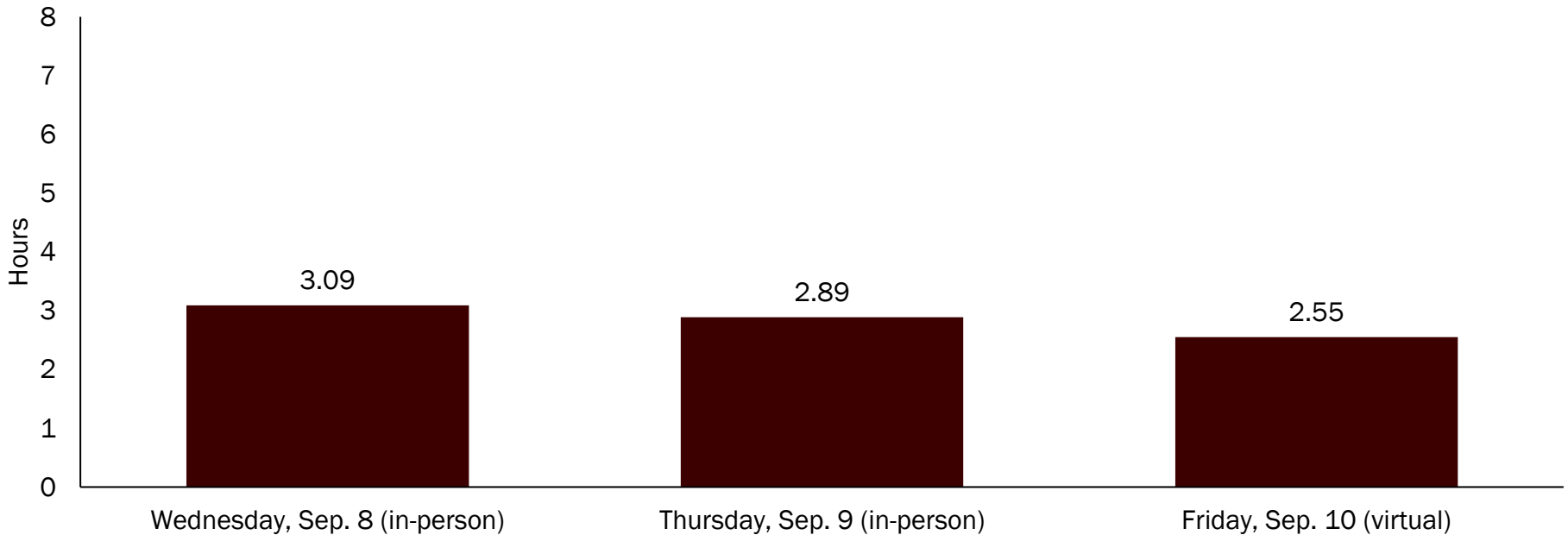


Please rate your experience of the following statements for the virtual Career Fair.



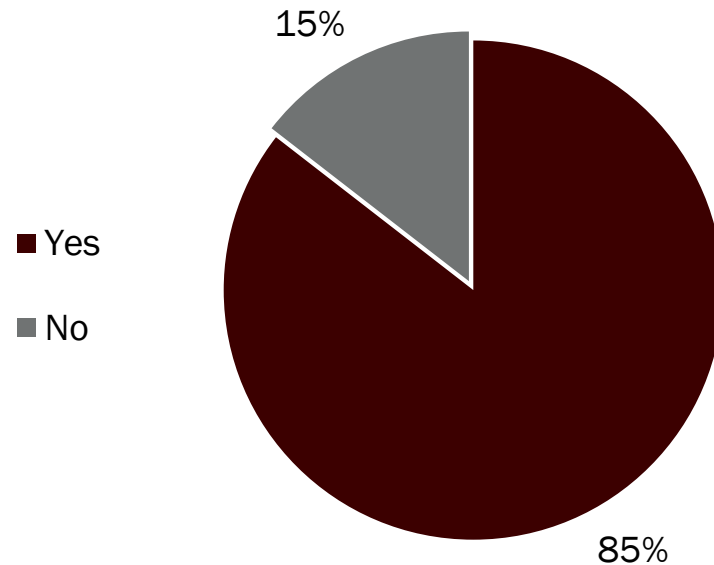
Asked to students who attended the Career Fair
Responses: 1475

Please indicate the total number of hours you spent at each day of the Career Fair (round to the nearest hour).



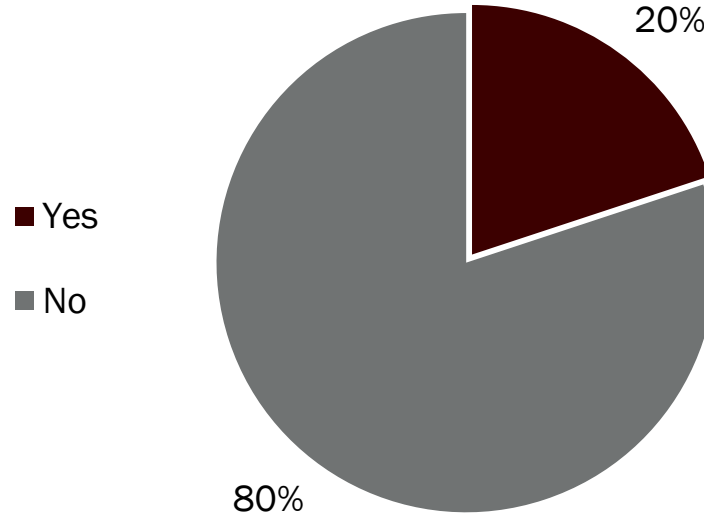
Asked to students who attended the Career Fair
Responses: 1475

Did you use the Career Fair website to prepare for the fair and search for companies?



Asked to students who attended the Career Fair
Responses: 1475

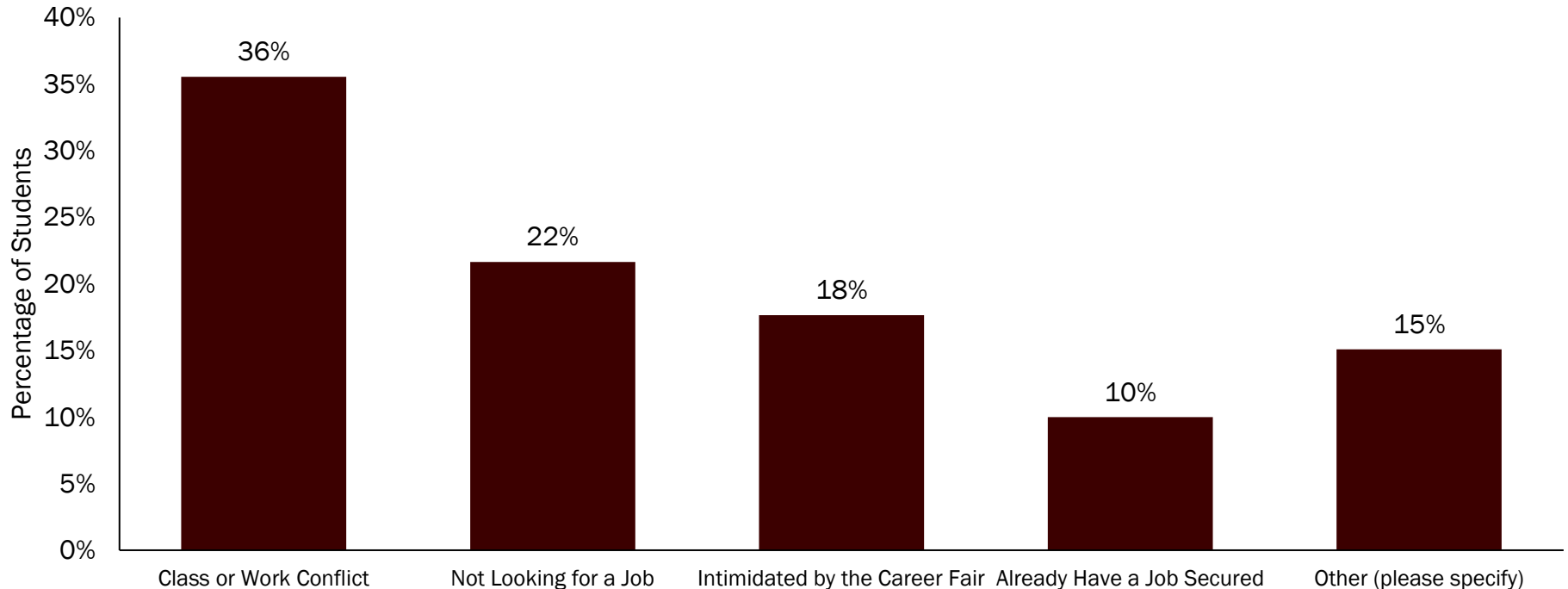
Did you attend the Company Showcase on Tuesday, September 7th?



Asked to students who did not attend the Career Fair
Responses: 1784



Why did you not attend the Career Fair?



Asked to students who did not attend the Career Fair
Responses: 1784



ENGINEERING
TEXAS A&M UNIVERSITY

Why did you not attend the Career Fair? – *Other (please specify)*

Class Schedule Did Not Allow Time

- “To much class work to do. Engineering department needs to be more considerate and flexible with assignment workload on certain weeks such as career fairs, finals, etc.”

Not Beneficial for Graduate or International Students

- “Not many opportunities for international students who need sponsorship.”
- “Not geared towards academic research positions for PhD students.”

Miscommunication

- “Did not have appropriate clothes.”
- “I thought it was more for upperclassmen.”

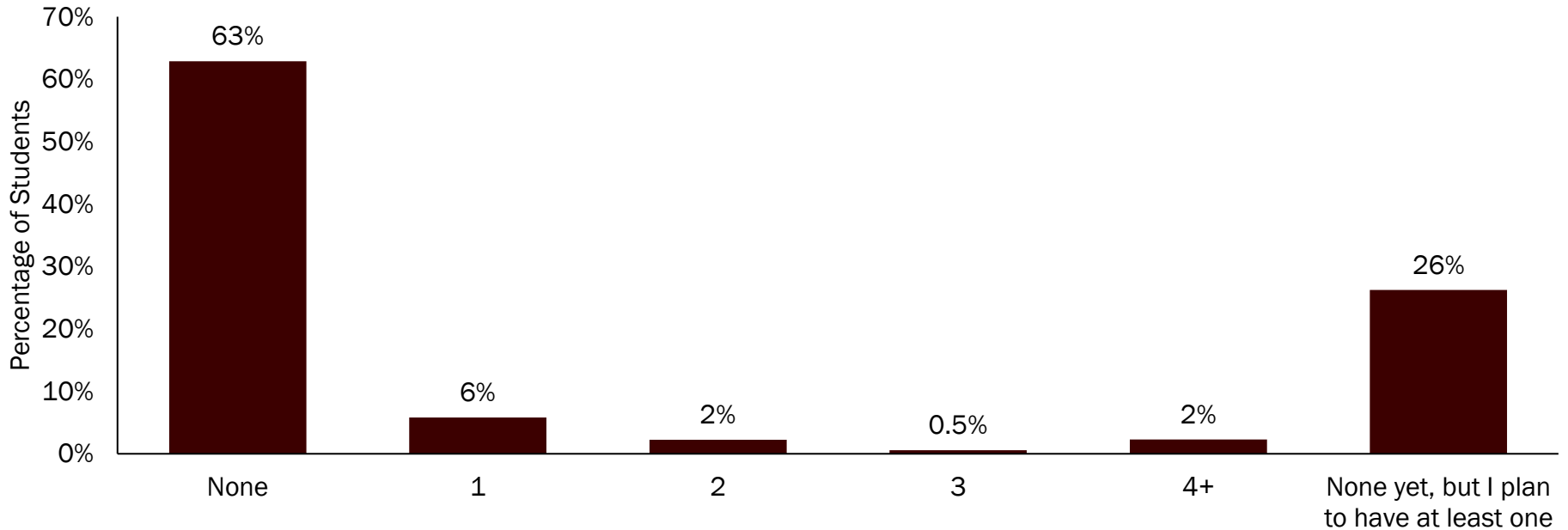
International Experiences Questions

Asked to all students



Responses: 3267

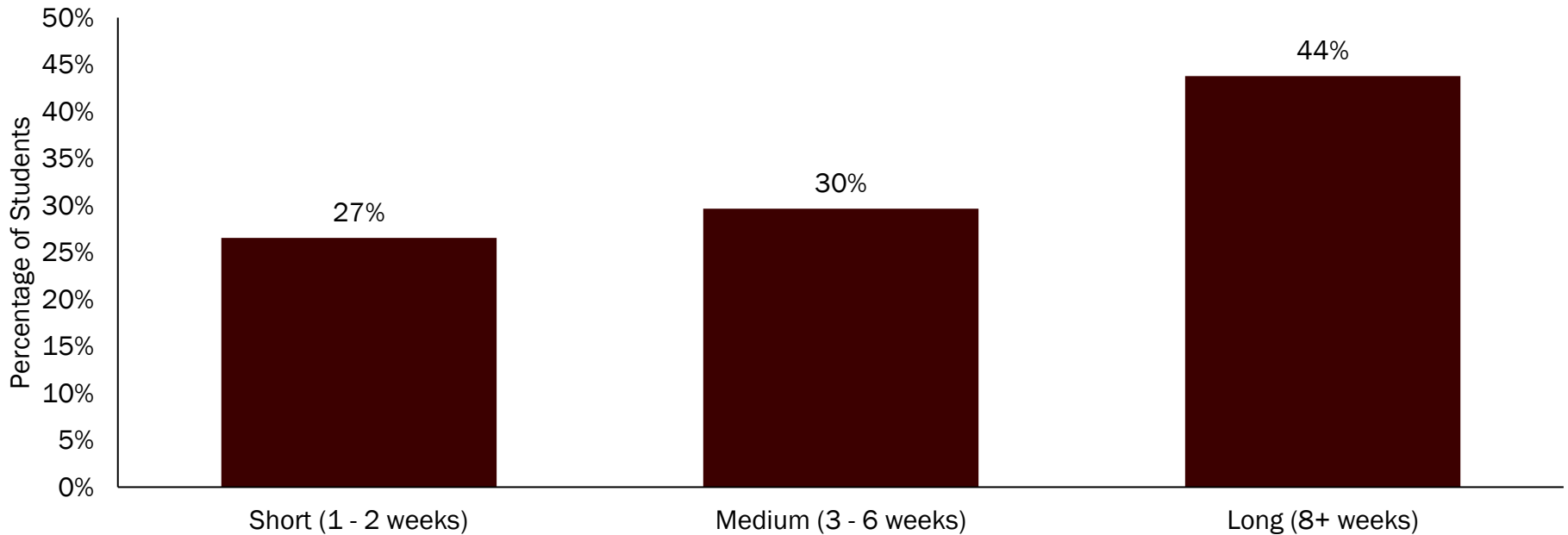
How many learning experiences have you had outside the U.S. while in college?



Asked to students who completed at least 1 experience abroad
Responses: 354



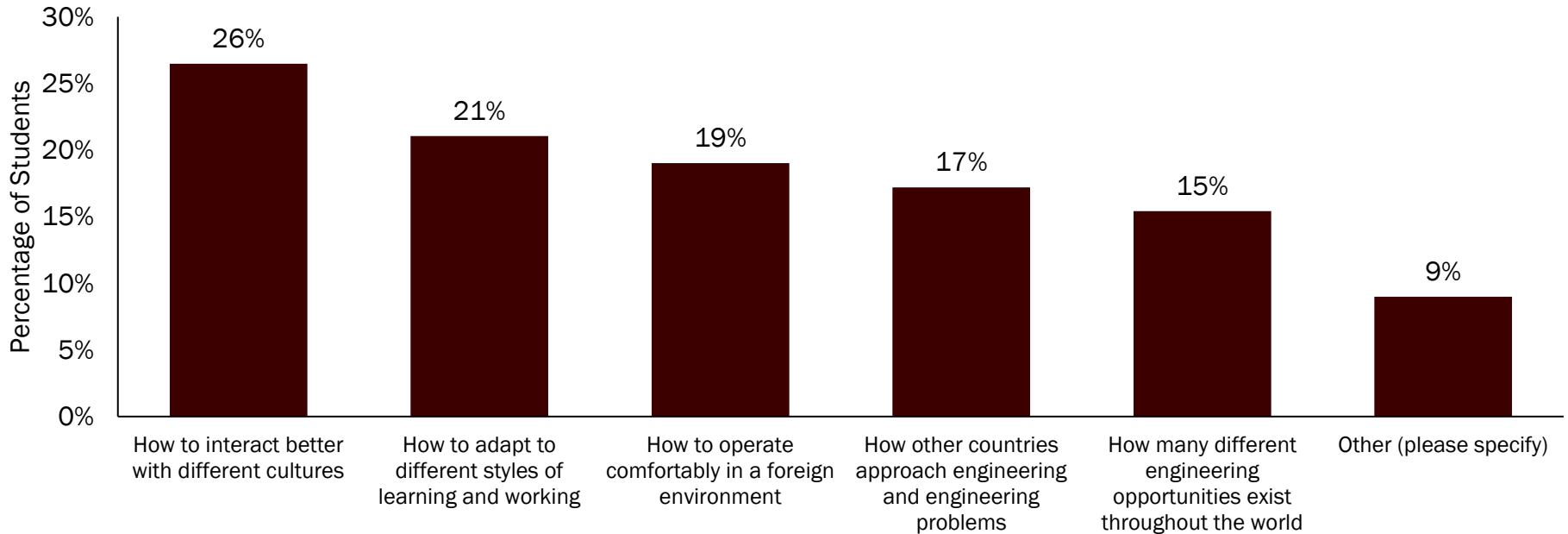
What was the average length of your learning experience(s) abroad?



Asked to students who completed at least 1 experience abroad
Responses: 354



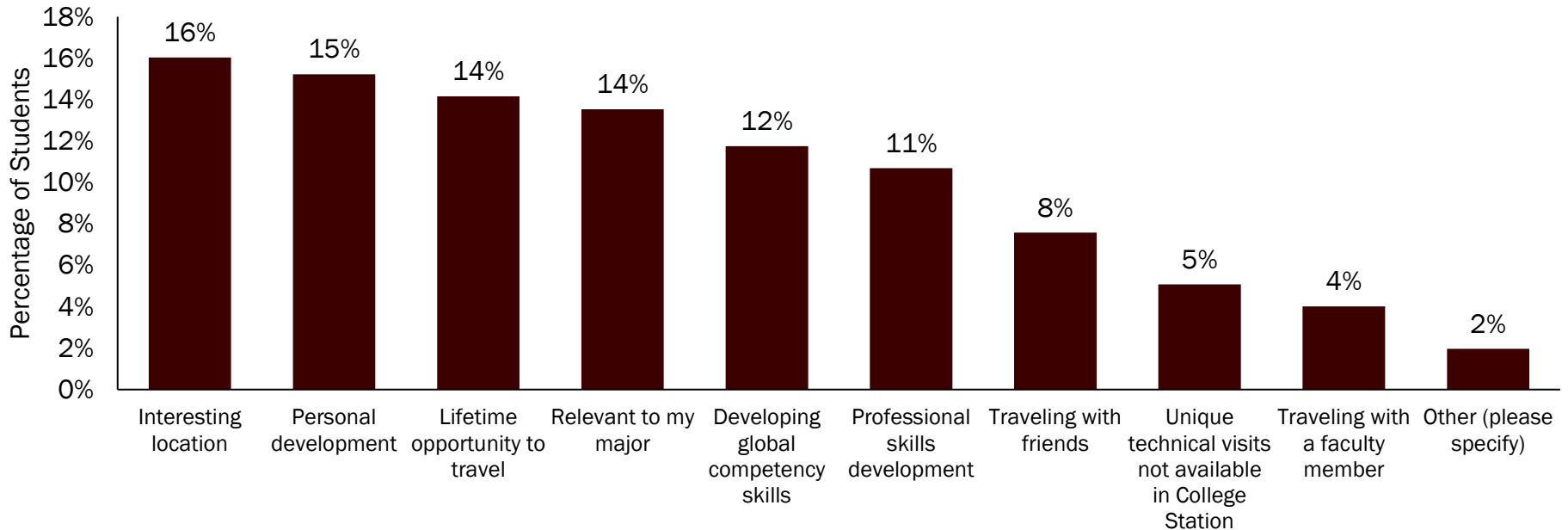
What did you learn during your international learning experience and how will it make you a better engineer? *(Select all that apply)*



Asked to students who completed at least 1 experience abroad
Responses: 354



Why did you choose to participate in international learning experience(s)? (Select all that apply)



Asked to students who completed at least 1 experience abroad
Responses: 354



ENGINEERING
TEXAS A&M UNIVERSITY

Why did you choose to participate in international learning experience(s)? – *Other (please specify)*

Personal Connection

- “It’s my hometown.”
- “Citizen of that country.”
- “Language learning.”

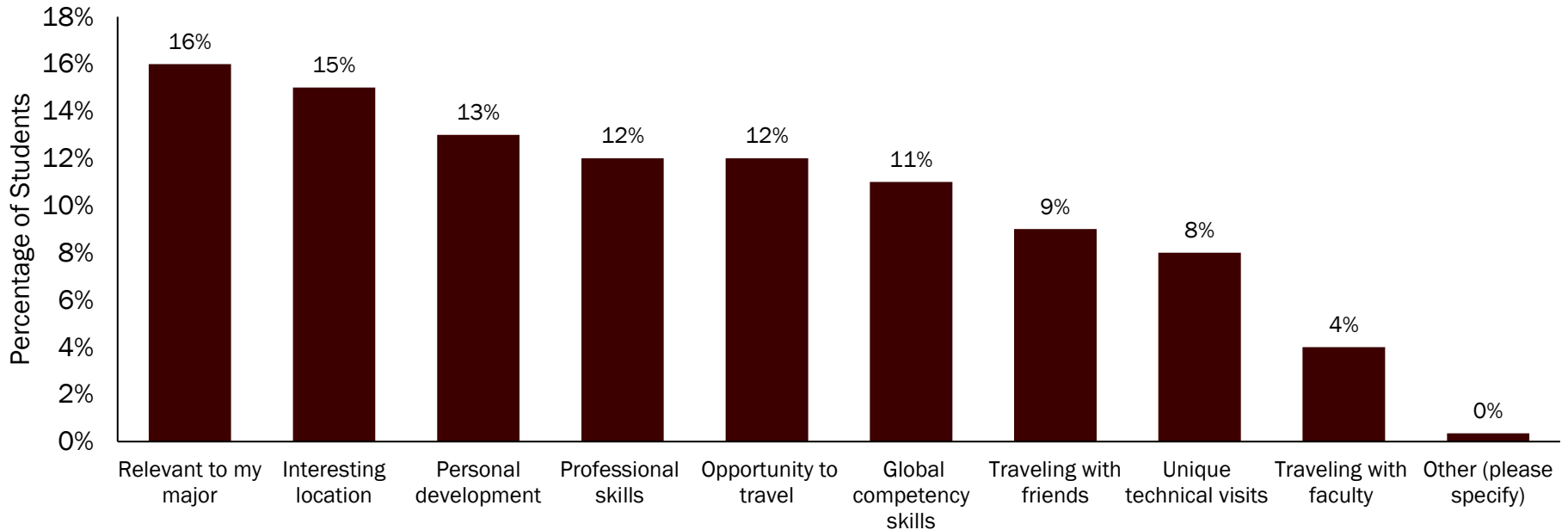
Research or Academic Opportunities

- “To learn from world class researchers.”
- “Unable to find professional opportunities in the US as an international student.”
- “It was necessary for my research project.”

Asked to students who plan to have 1 international experience
Responses: 4664



What aspects of an international learning experience would make you want to participate in it? *(Select all that apply)*



Asked to students who plan to have 1 international experience
Responses: 15



ENGINEERING
TEXAS A&M UNIVERSITY

What aspects of an international experience would make you want to participate in it? – *Other (please specify)*

Global Exposure

- “Having a variety of global perspective, and being able to adopt and use these perspectives. It makes me super marketable.”
- “Gain experience of working with people of a different country.”

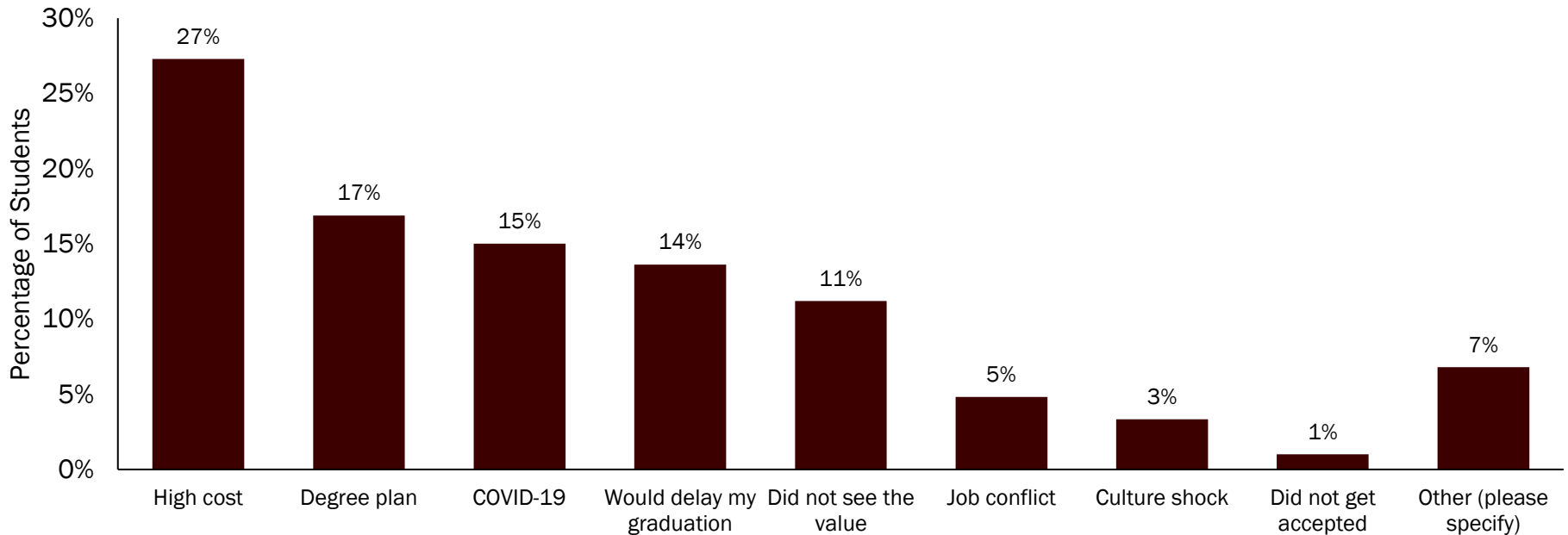
Foreign Language Immersion

- “Language skills development (in a language I am already studying independently).”

Asked to students who did not have an international experience
Responses: 4170



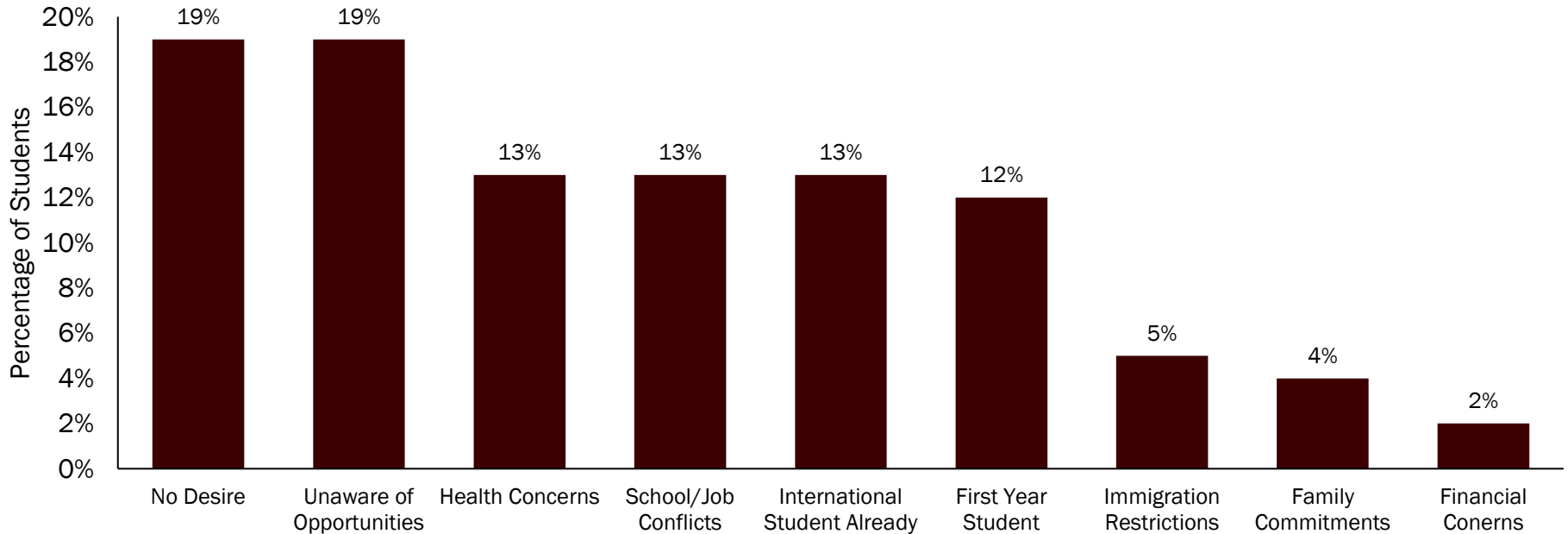
Why did you choose not to participate in international learning experience(s)? (Select all that apply)



Asked to students who did not have an international experience
Responses: 259



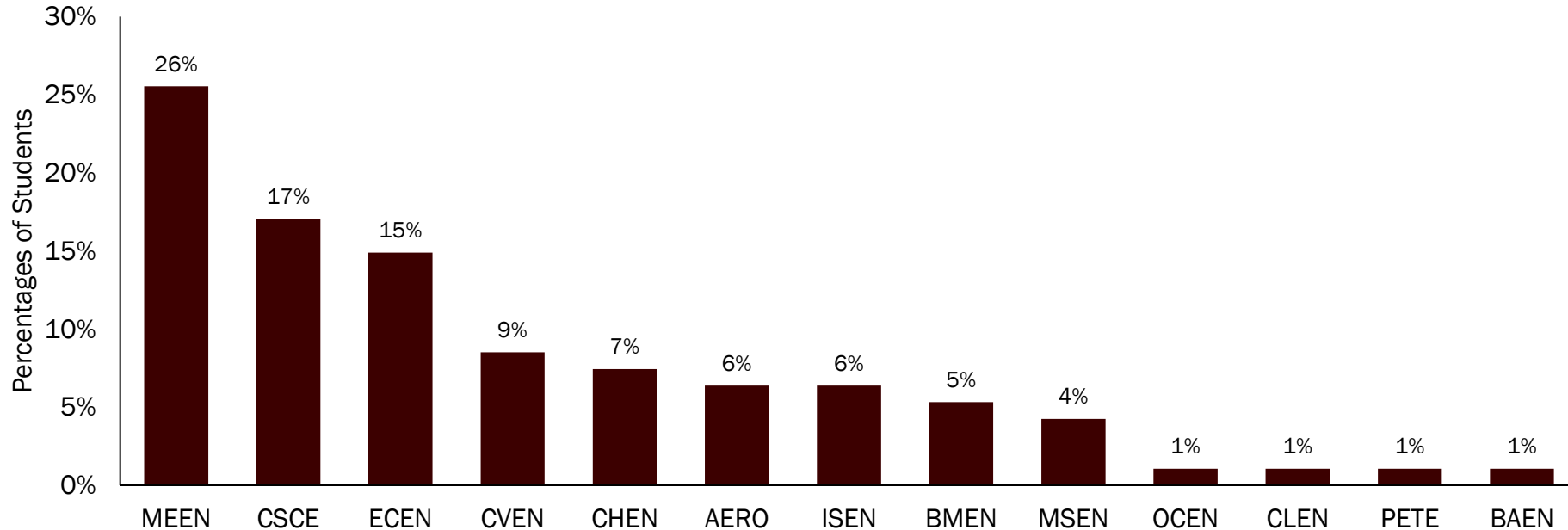
Factors for students who selected “other” as a reason to not participate in international learning experiences.





Responses: 153

If there are any courses you think could work well as a study-abroad opportunity, please provide those below. (*Open Ended*)

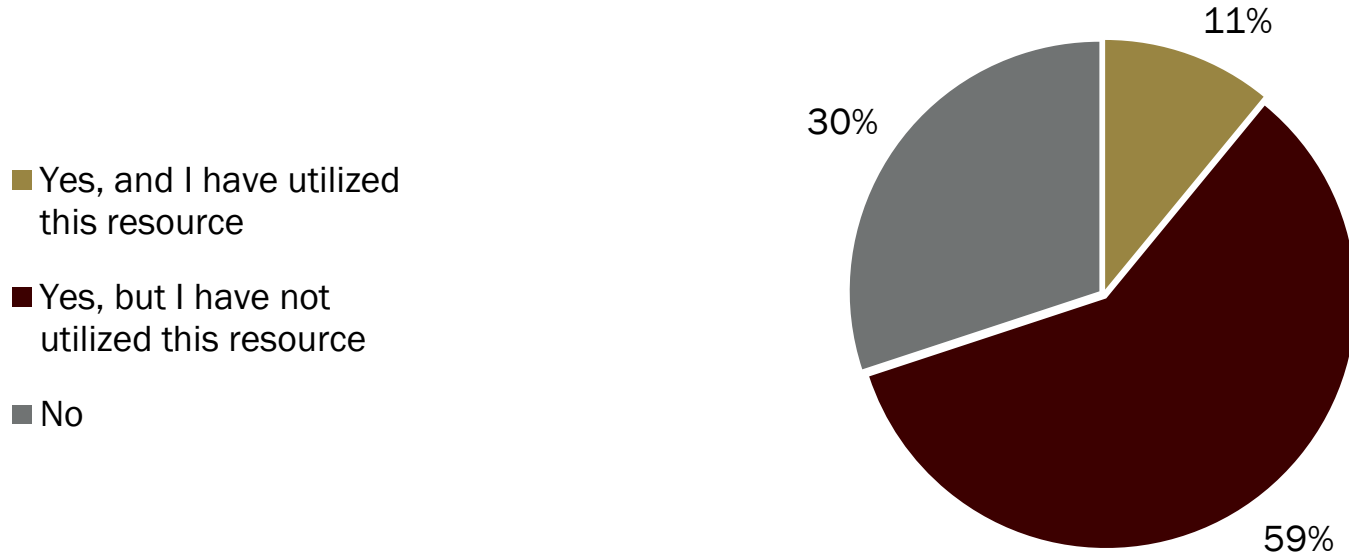


Mental Health Questions

Asked to all students

Responses: 3260

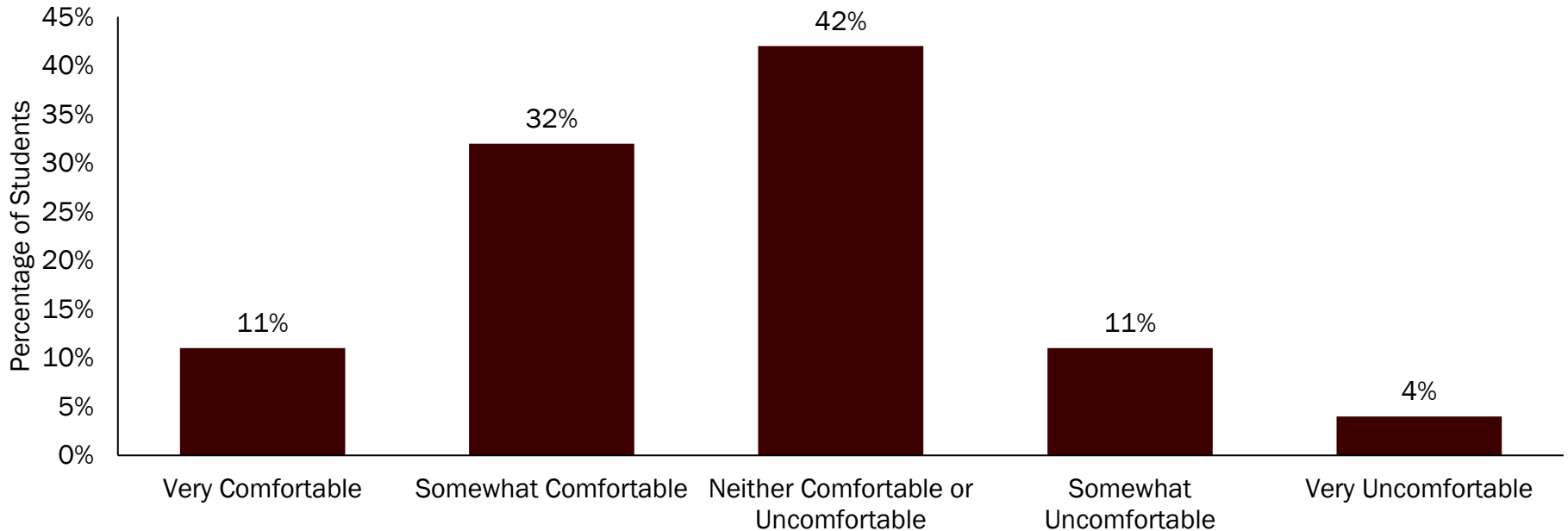
Have you heard about the Counseling and Psychological Services (CAPS) resource within the College of Engineering?



Asked to students who had not utilized the ZACH CAPS resource
Responses: 2878

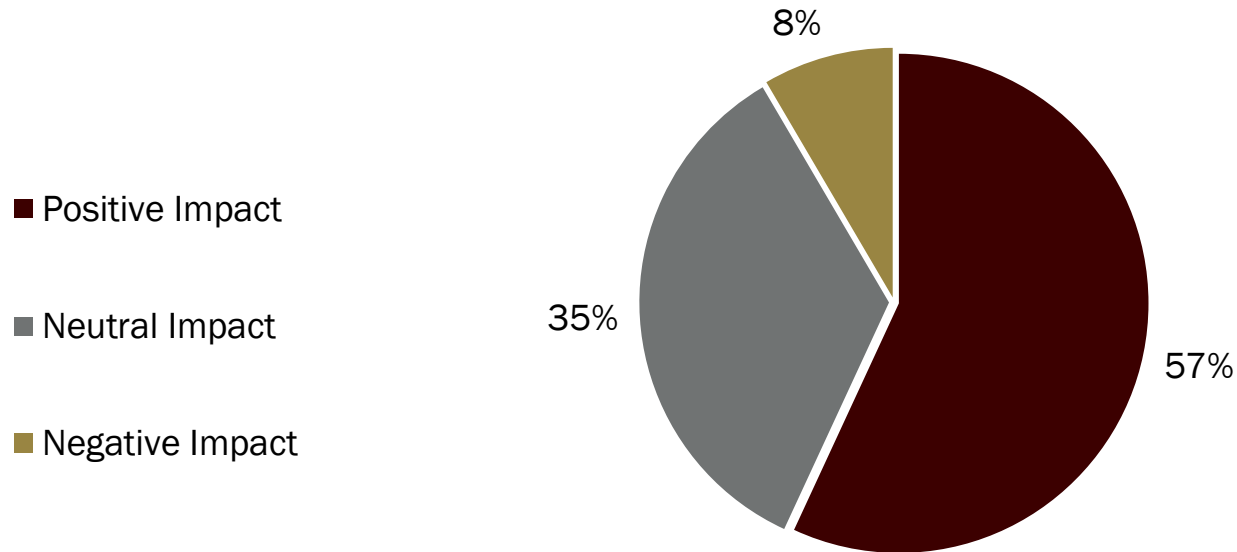


How comfortable would you feel using the College of Engineering CAPS resource?



Asked to students who have used the CAPS resource
Responses: 355

What type of impact did CAPS have on your overall mental health?





Responses: 312

Please share any feedback or suggestions you have for the College of Engineering in regards to student mental health and the CAPS resource.
(Open Ended)

Building Awareness

- "Encourage students to use the one-on-one counseling! It's nice to have a professional to vent to. "
- "It would be nice if professors talked about it or encouraged it more."
- "Making students more aware about it, especially in engineering and around ZACH."

Quantity of Resources

- "There are so many students it is hard for CAPS to accommodate all of us."
- "CAPS Needs more personnel to support all students. Even though it is just an entry point to counseling, still don't have enough resources to support all students."

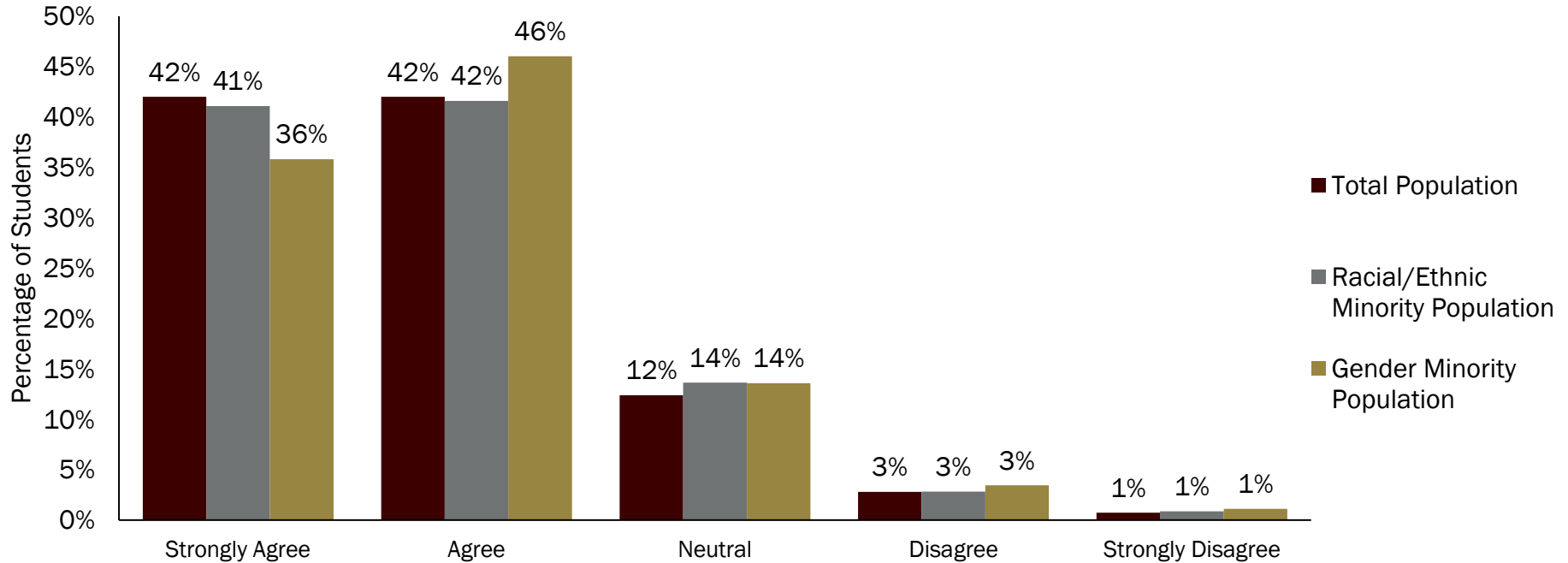
Diversity & Inclusion Questions

Asked to all students



Responses: 3259

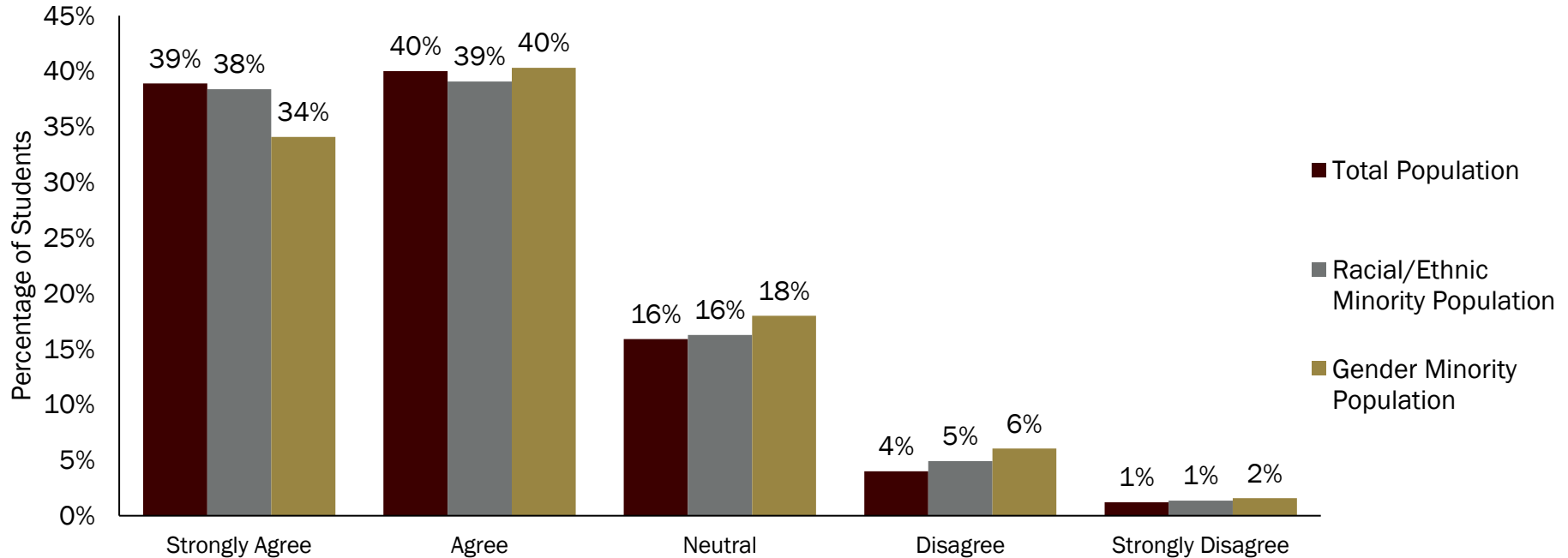
Please rate your agreement with the following statements. – I feel welcome in the College of Engineering.





Responses: 3259

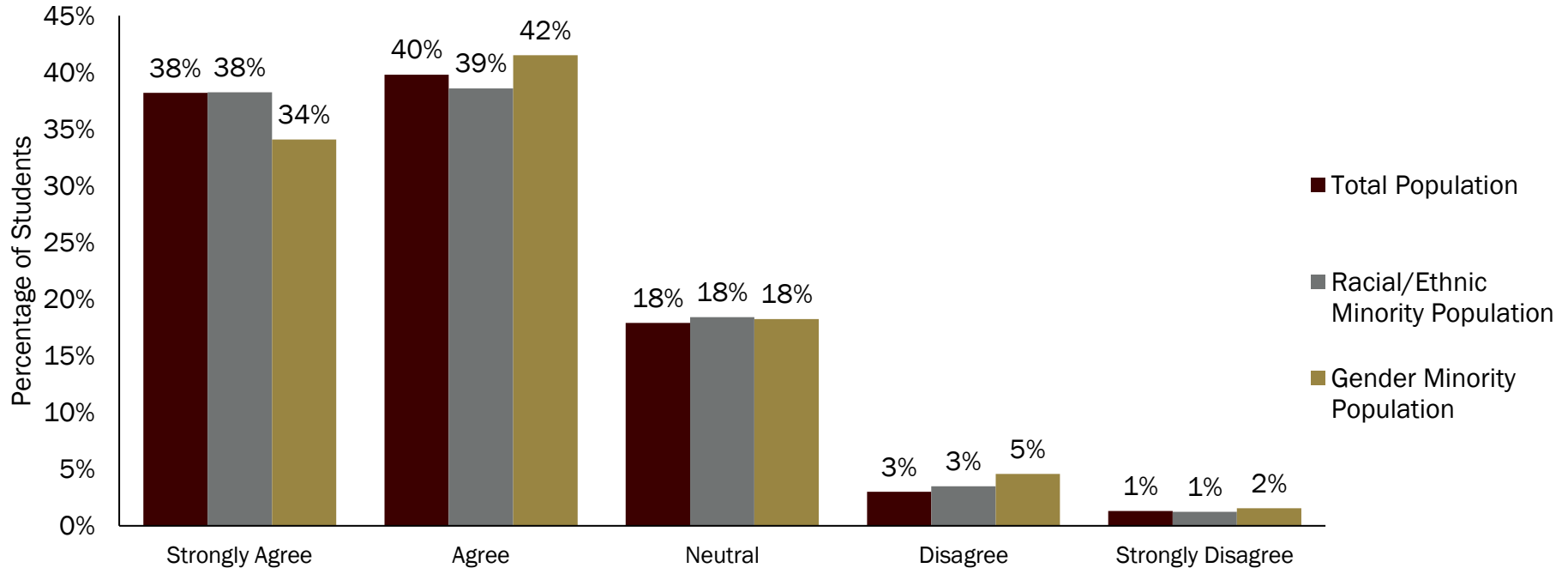
Please rate your agreement with the following statements. – The College of Engineering promotes a diverse engineering student body.





Responses: 3259

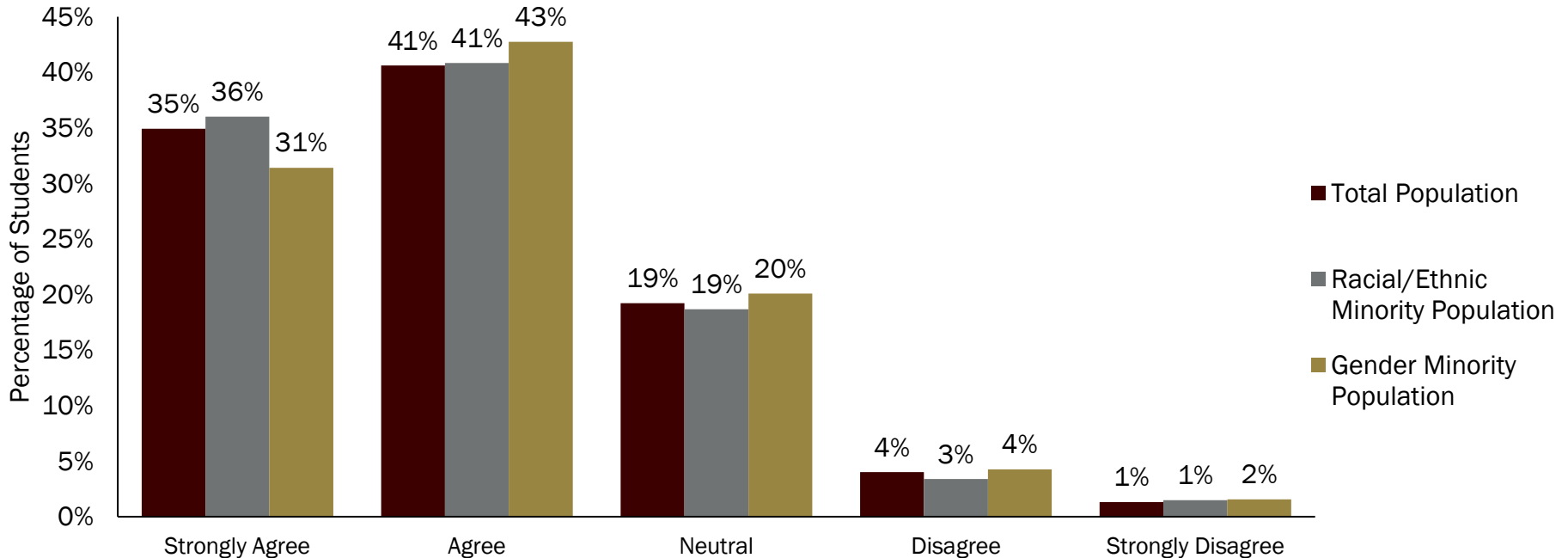
Please rate your agreement with the following statements. – The College of Engineering values diversity by having a diverse engineering faculty.





Responses: 3259

Please rate your agreement with the following statements. – The College of Engineering values diversity of thought.

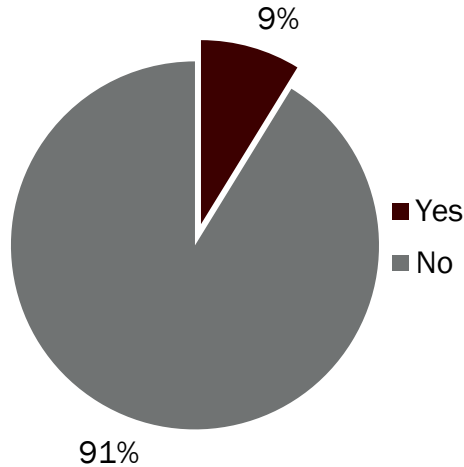




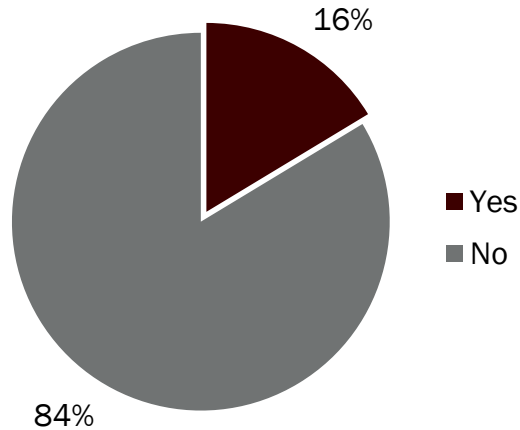
Responses: 2259

Have you experienced discrimination in the College of Engineering?

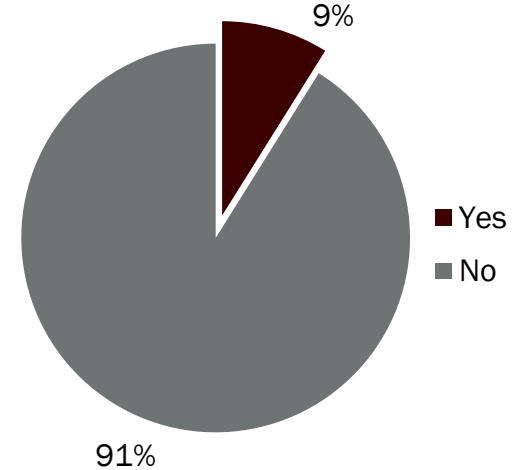
Total Population



Answered by a Gender Minority

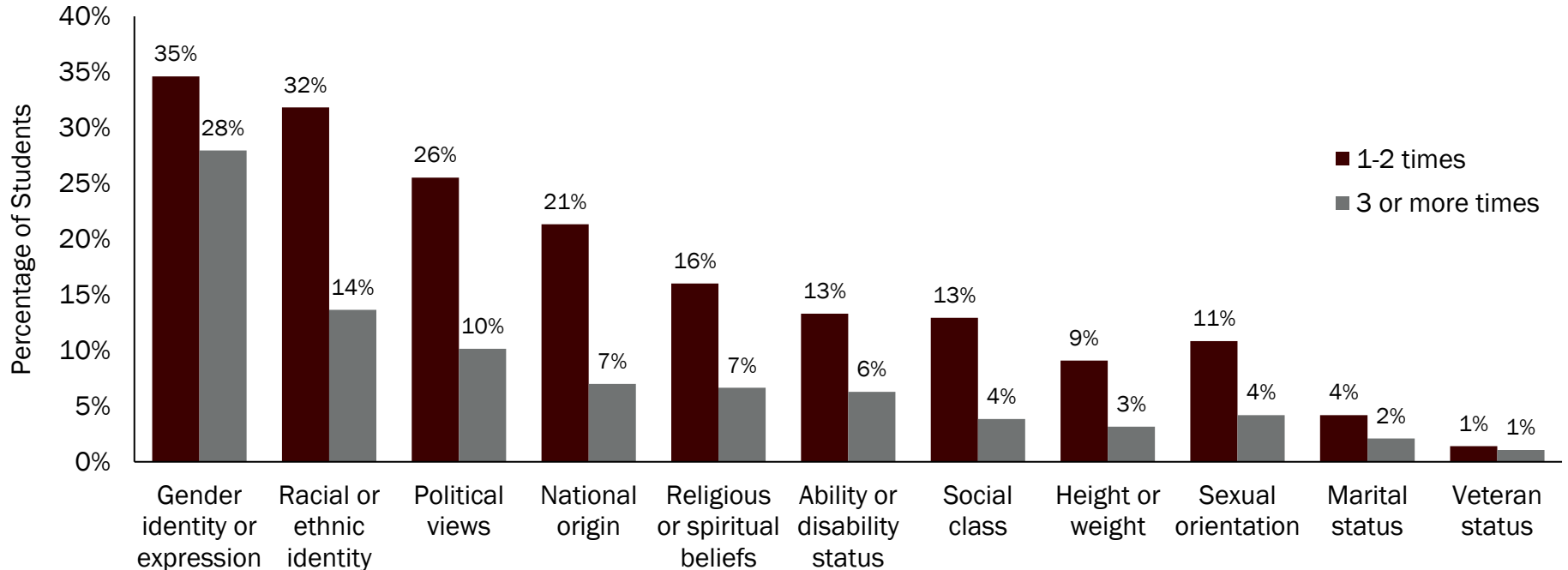


Answered by a Racial/Ethnic Minority



Asked to students who have experienced discrimination
Responses: 286

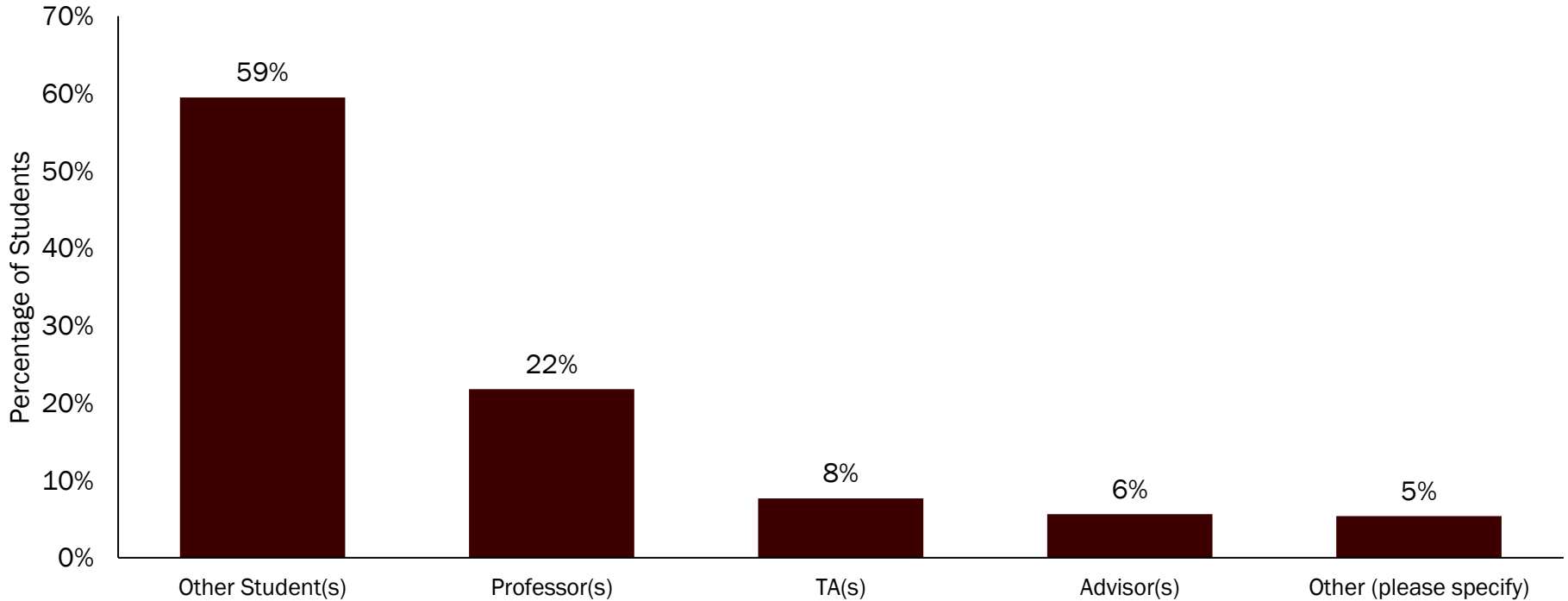
Over the past year, how often have you experienced discriminatory events within the College of Engineering because of your... (Select all that apply)





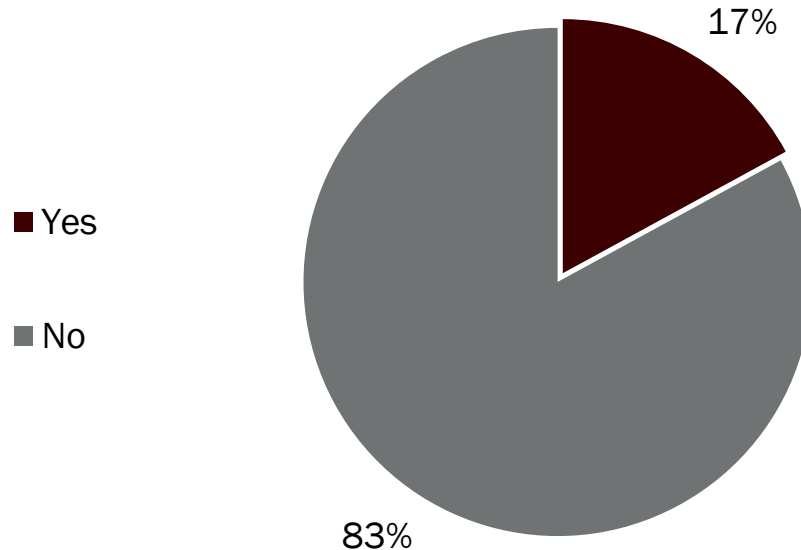
Responses: 390

Which of the following groups have discriminated against you?



Responses: 675

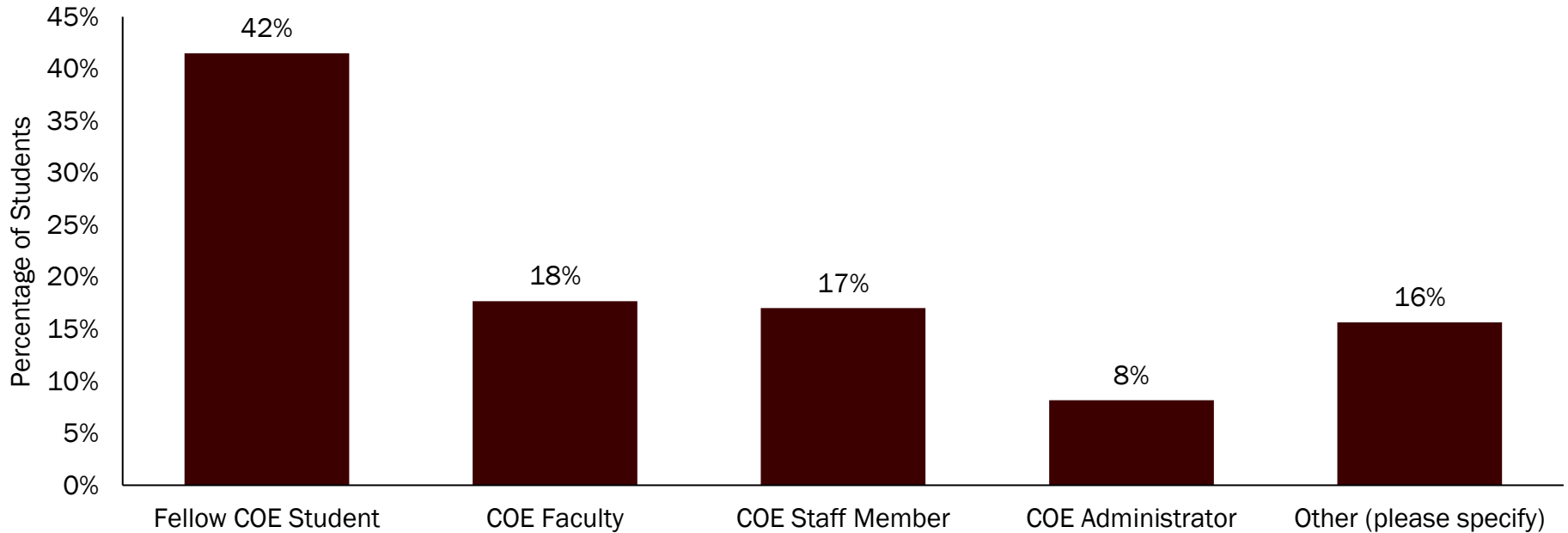
If you experienced or witnessed any discrimination within the College of Engineering, did you inform somebody else of the incident?



Asked to students who informed someone of discrimination
Responses: 147



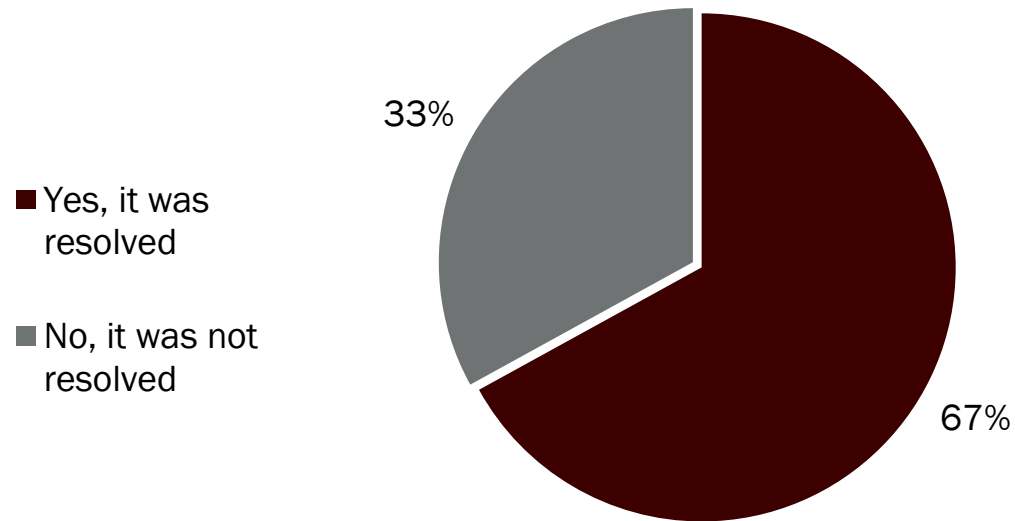
Who did you tell? (Select all that apply)



Asked to students who informed someone of discrimination
Responses: 53



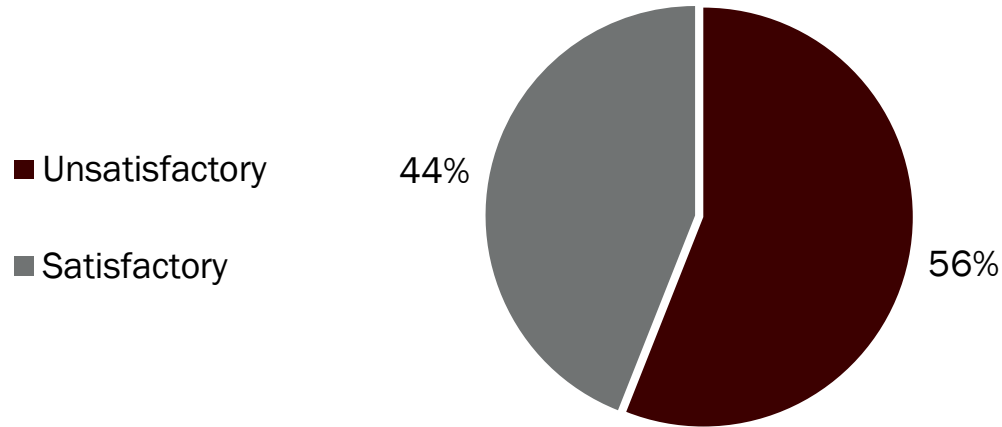
How do you feel the situation was handled? Was the issue resolved?
Please provide further details. (*Open Ended*) (*General Consensus*)





Responses: 906

Following many online semesters due to COVID-19, how do you feel the College of Engineering has accommodated students during the transition to in-person learning? Please elaborate on your response.
(Open Ended) (General Consensus)





Responses: 906

Following many online semesters due to COVID-19, how do you feel the College of Engineering has accommodated students during the transition to in-person learning? Please elaborate on your response. (*Open Ended*)

Resources in Regards to Missing Class

- “We are used to being able to rewatch lecture videos and now that is not an option. Please let professors livestream classes we can't attend because we are sick.”
- “The teachers could use more training with the technology.”
- “They should still provide the online infrastructure from the online semesters for students quarantining or with preexisting conditions.”



Responses: 906

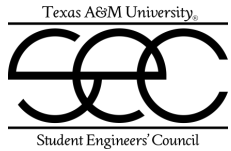
Following many online semesters due to COVID-19, how do you feel the College of Engineering has accommodated students during the transition to in-person learning? Please elaborate on your response. (*Open Ended*)

Attendance

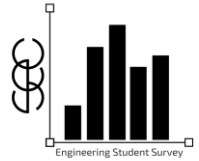
- "Students were told not to come to class if feeling symptoms, however I routinely sat next to visibly sick students."
- "I had covid the 2nd week of school and there were no resources to help me stay on top of my work. I fell behind."

Masks and Vaccinations

- "I feel the university and COE could do more to incentivize masks and vaccinations, have free masks available at the entrance of all buildings."
- "Even though I wear a mask, I am afraid to get tested and have to miss class because my fellow students are all without masks. I'm just trying to graduate."



2021-2022 Legislation Committee

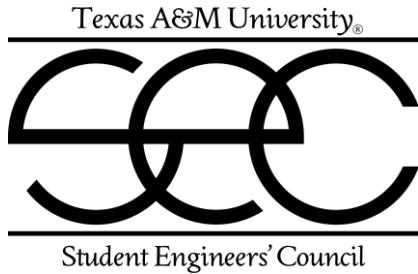


Co-Chairs

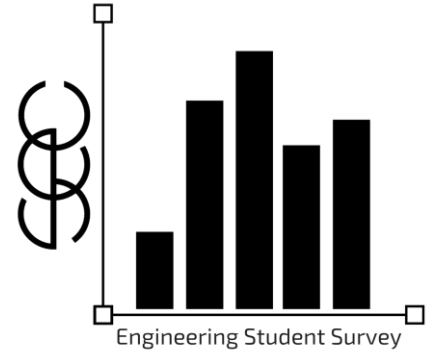
James Rushing
Sarah Beamer

Members

Anirudh Madyastha
Drew DeHaven
Margaret McGurran
Nick Dittimore
Samuel Blair
Vinisha Vasam
Violet Dunlap
Vivian Zheng



ENGINEERING STUDENT SURVEY



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