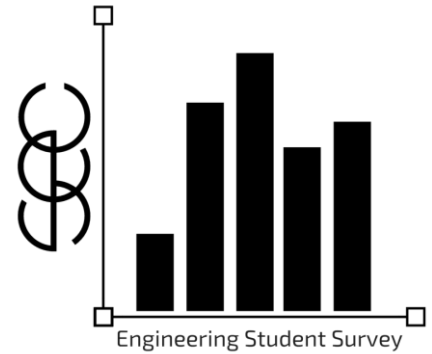
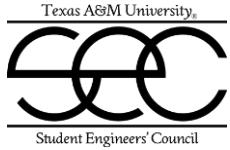


ENGINEERING STUDENT SURVEY

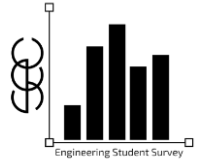


Results Presentation

February 8th, 2023

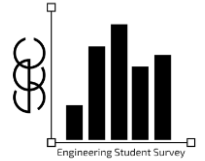


Survey Executive Summary



Mission

A primary mission of the Student Engineers' Council is to serve as a 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

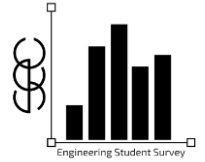
Question edits:

- Select questions and answer choices in the survey were modified to resemble surveys administered by Texas A&M.

Section edits:

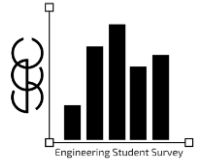
- Demographics section is provided in the handout.
- A summary of highlights from each section is provided in the handout.
- The Mental Health section was improved following the implementation of it last year.
- A few other sections saw changes to re-focus varying questions to be more helpful for faculty.

Survey Question Breakdown



Introduction/Demographic Questions	Slide 07
Engineering Student Organization Questions	Slide 19
Undergraduate Student Questions	Slide 24
ETAM Questions	Slide 39
Graduate Student Questions	Slide 45
Post-Graduation Questions	Slide 50
Internship and Professional Experiences Questions	Slide 55
Career Fair Questions	Slide 61
International Experience Questions	Slide 70
Mental Health Questions	Slide 78
Diversity & Inclusion Questions	Slide 85

Survey Response Summary



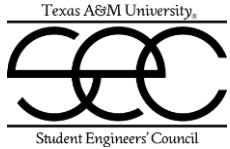
6-Week Survey Period

October 31st, 2022 – December 9th, 2022

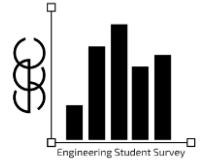
3,736 Total Respondents

~17% of Engineering Student Body

(78% from Undergraduate Students + 22% from Graduate Students)



Special Thanks



Dr. Andrea M. Ogilvie, Assistant Dean for Student Success

Dr. Angie Hill Price, Associate Dean for Undergraduate Programs

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

Dr. Maria Claudia B. Alves, Senior Director, Halliburton Engineering Global Programs

James Rushing, SEC President

Sarah Beamer, SEC VP Internal

Colton Oliphant, SEC VP Development

Introduction/Demographic Questions

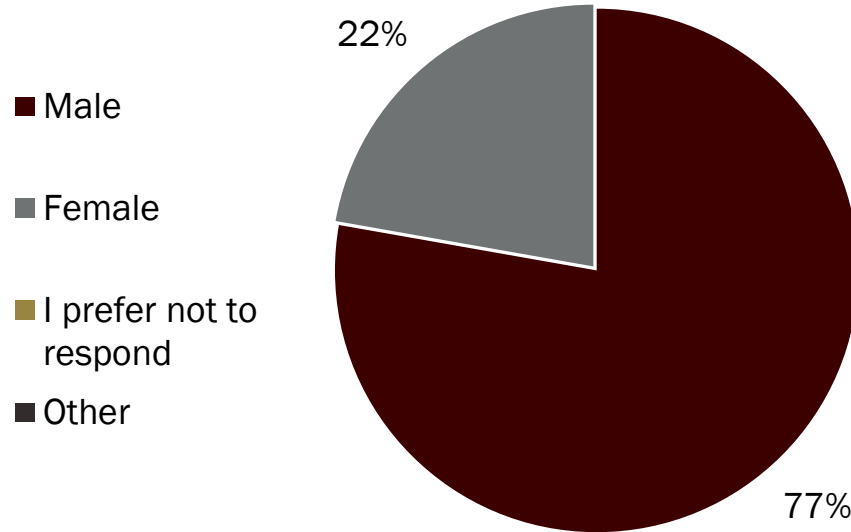
Asked to all students



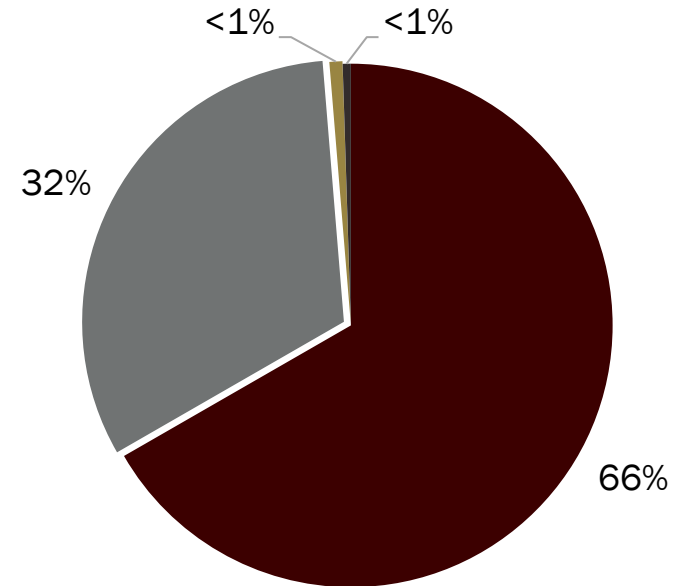
Responses: 3736

What gender do you identify as?

College of Engineering:



ESS Results:

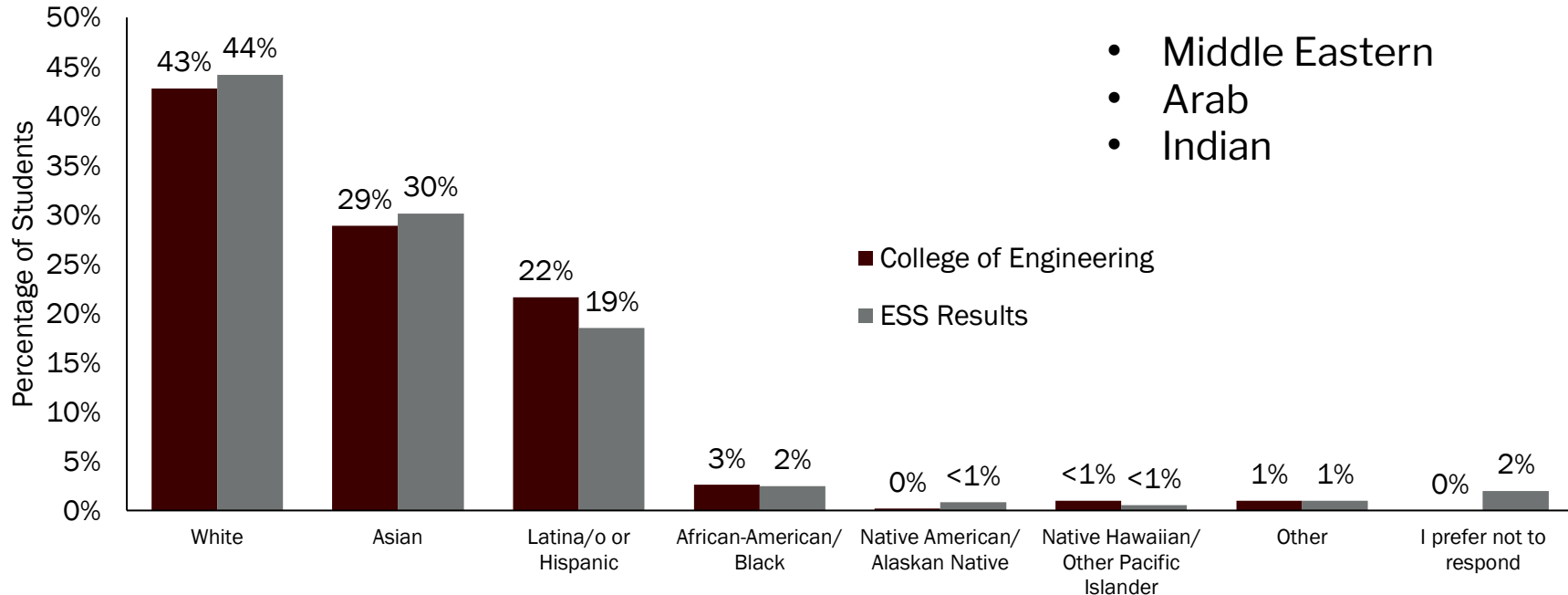


Responses: 3736

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

Popular "Other" responses:

- Middle Eastern
- Arab
- Indian



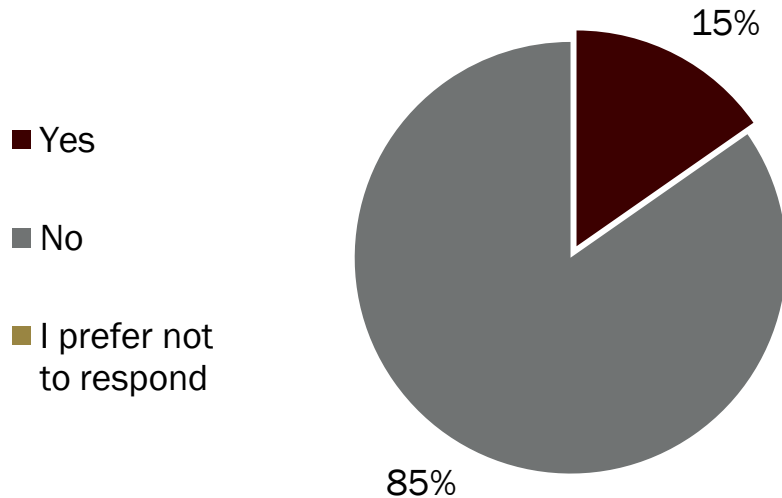


Responses: 3736

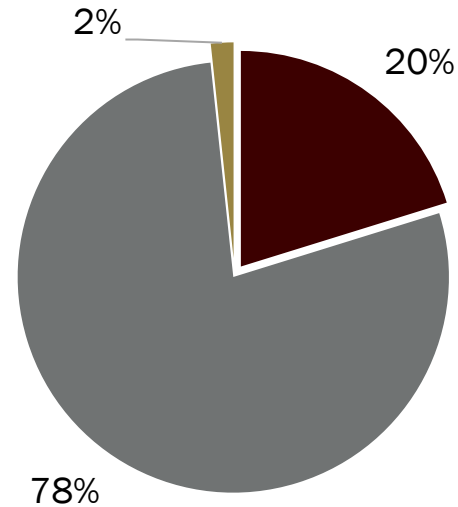
Are you a first-generation college student?*

*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." (<https://nces.ed.gov/pubs2018/2018009.pdf>)

College of Engineering:



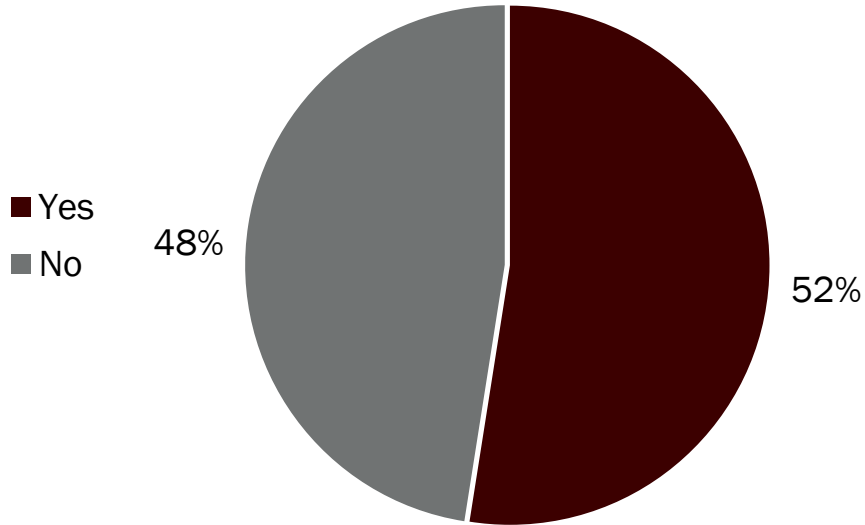
ESS Results:



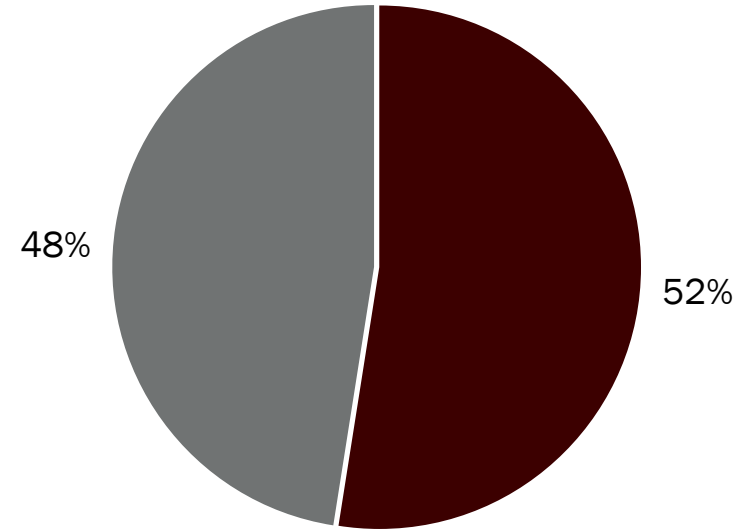
Responses: 3736

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

2021:



2022:

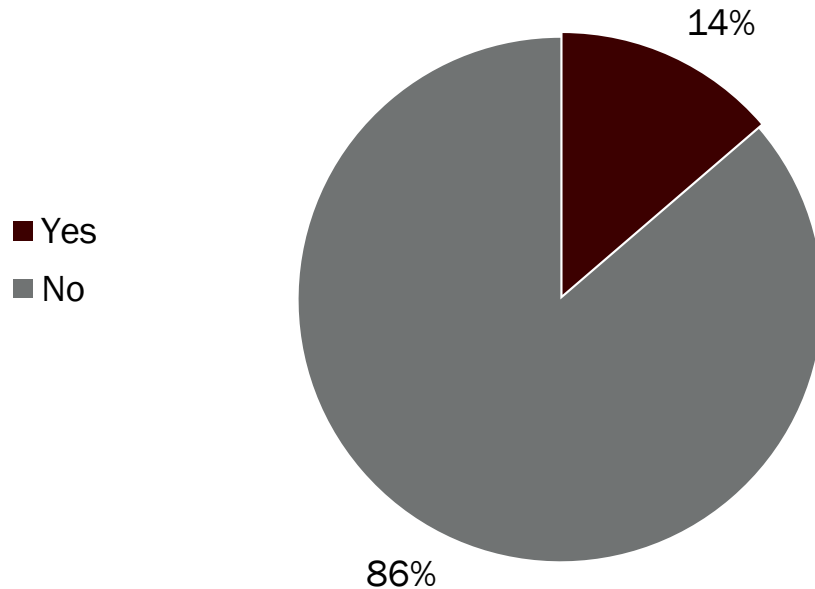




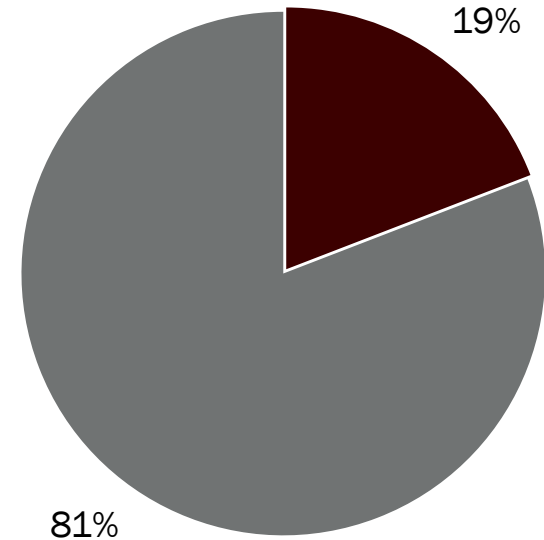
Responses: 3736

Are you an international student?

College of Engineering:



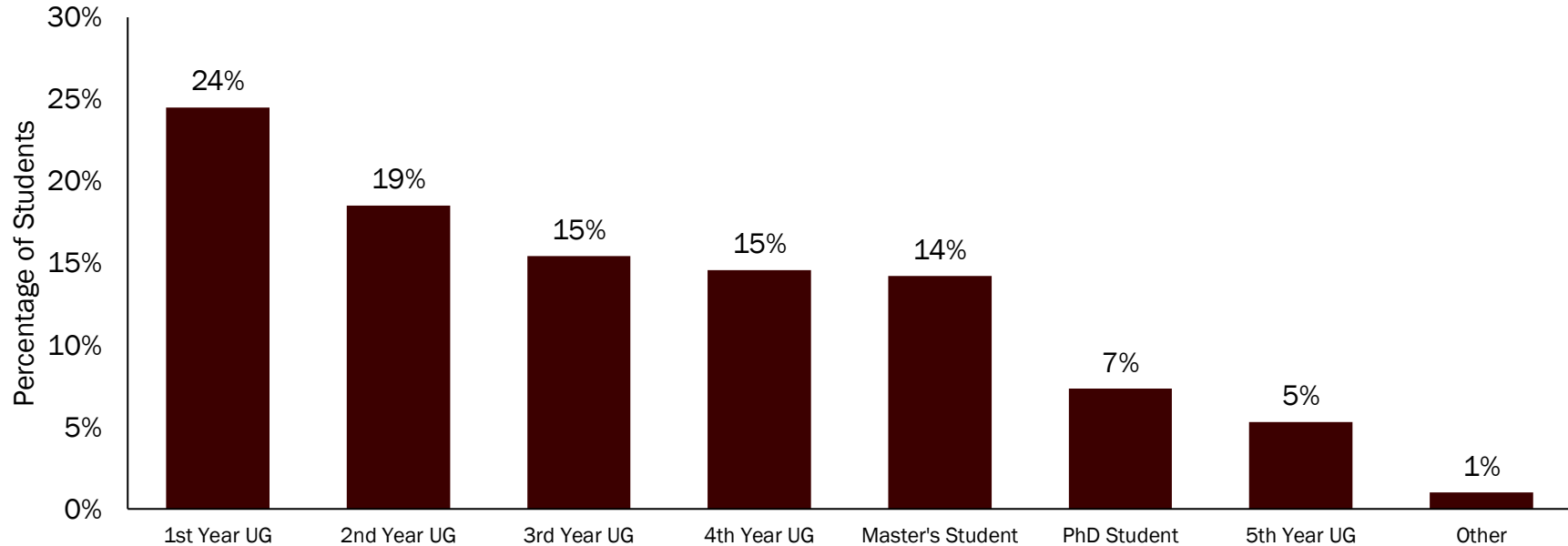
ESS Results:





Responses: 3736

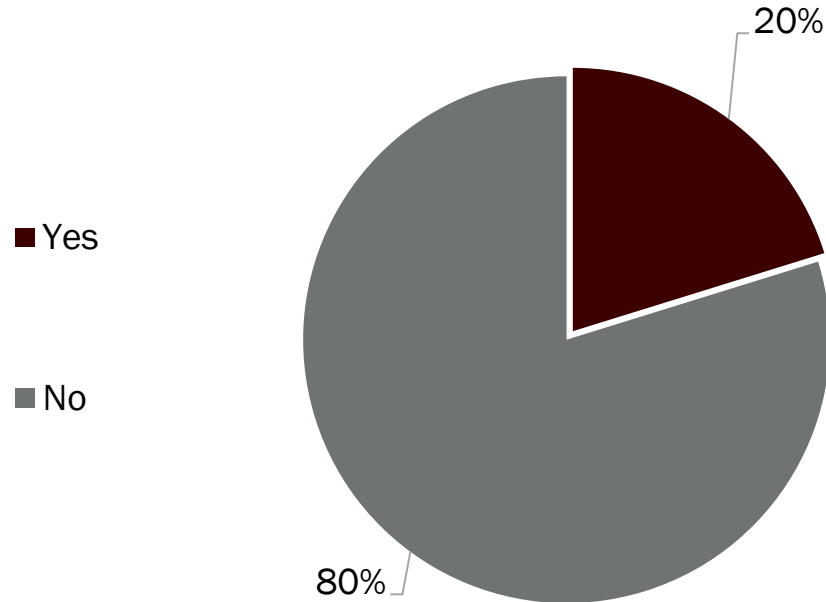
Which of the following most accurately represents your class year at Texas A&M University?



Responses: 3736

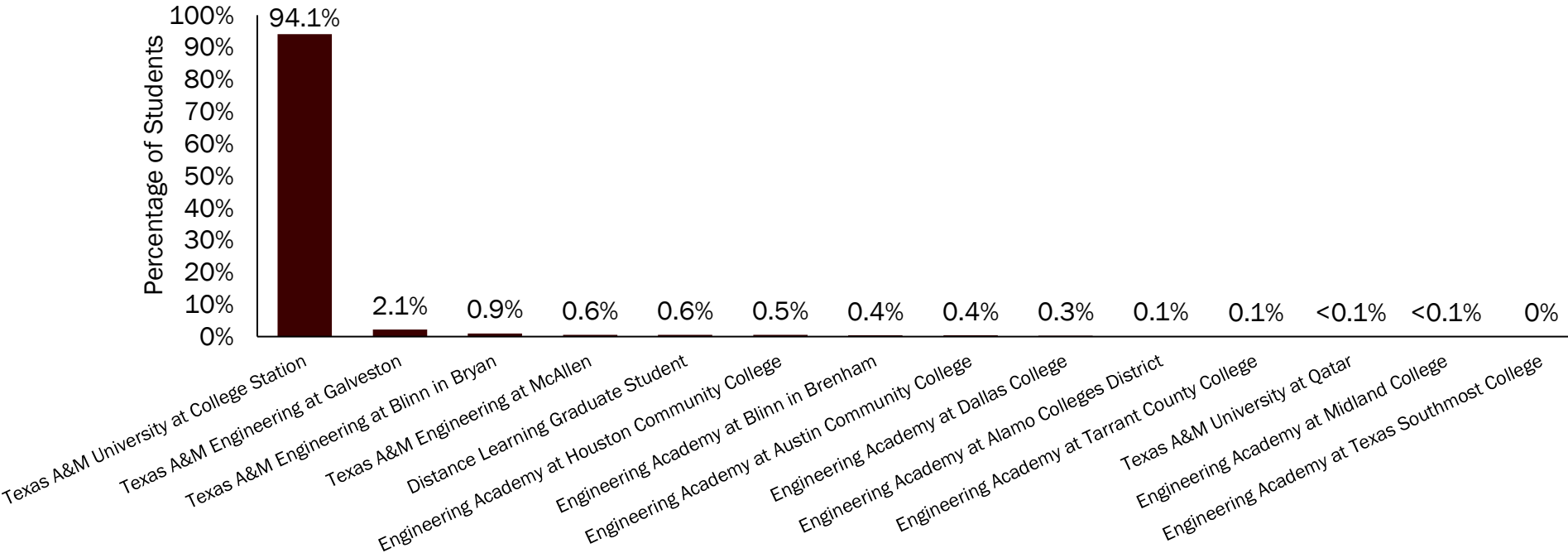


Are you graduating in December 2022 or May 2023?



Responses: 3736

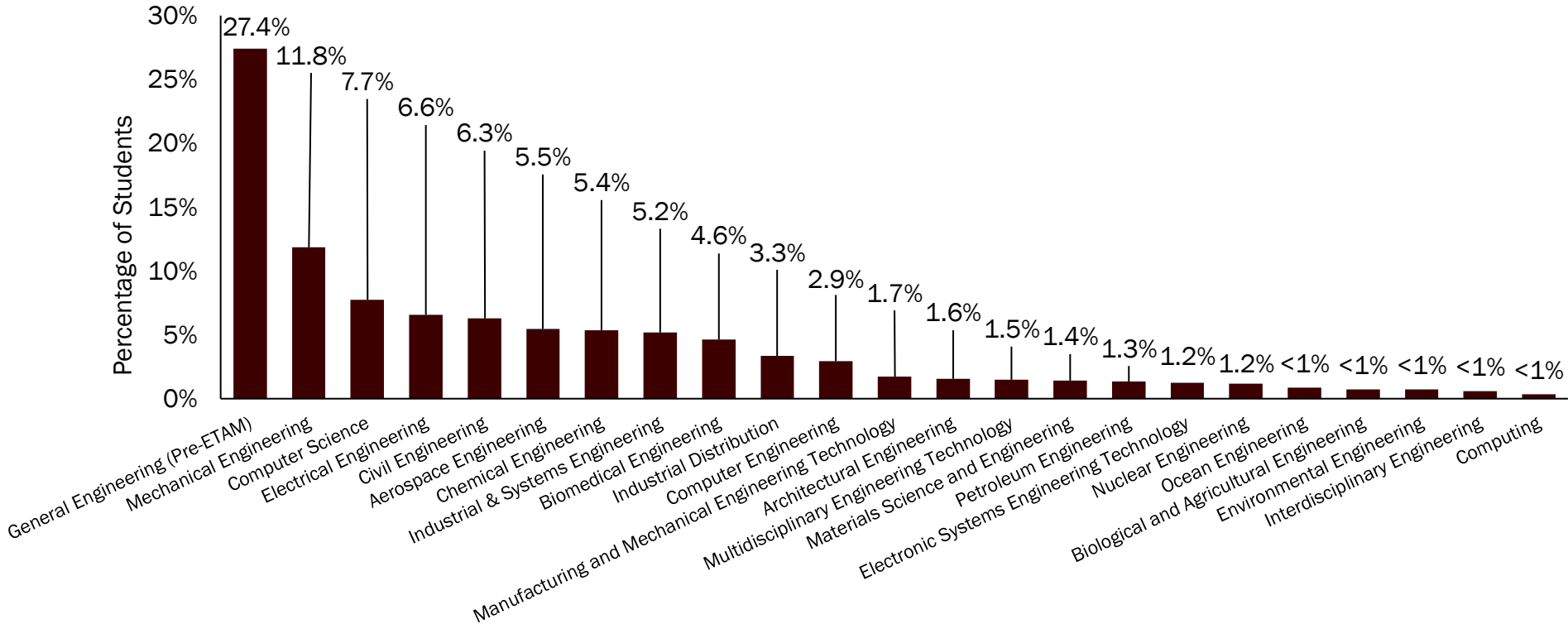
At which campus do you currently take the majority of your courses?



Responses: 3736



What is your Major of Study?



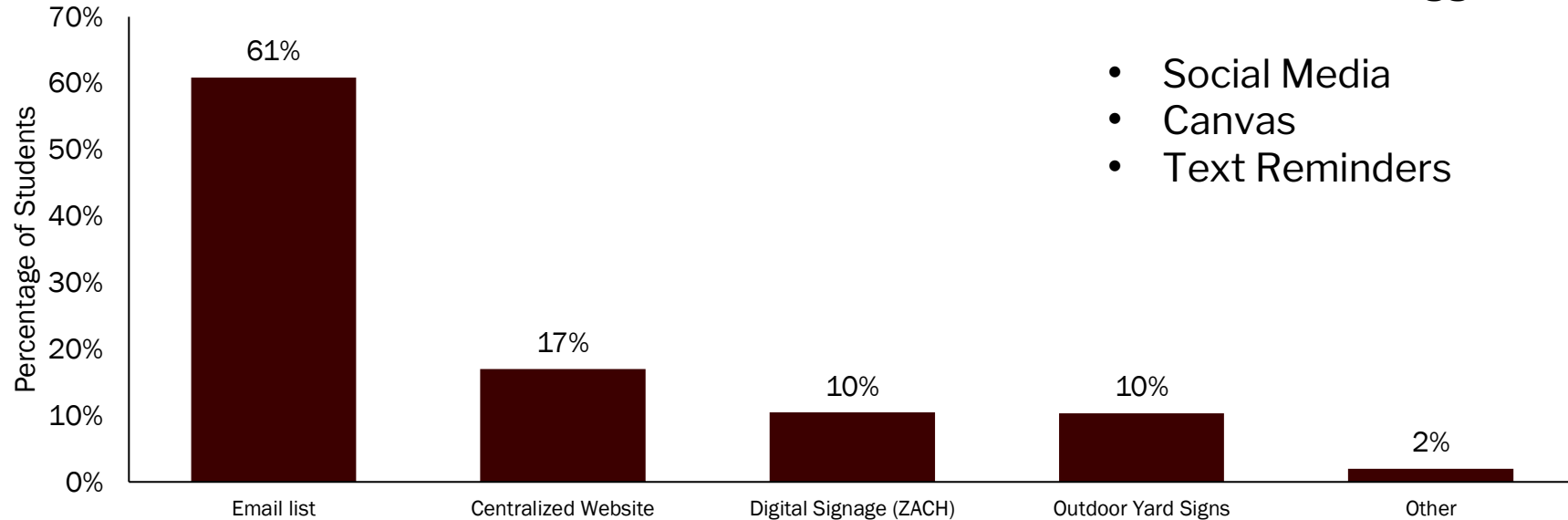


Responses: 3736

How would you prefer to receive information about events, scholarships, career opportunities, and other general information from the College of Engineering?
(select all that apply)

Other Student Suggestions:

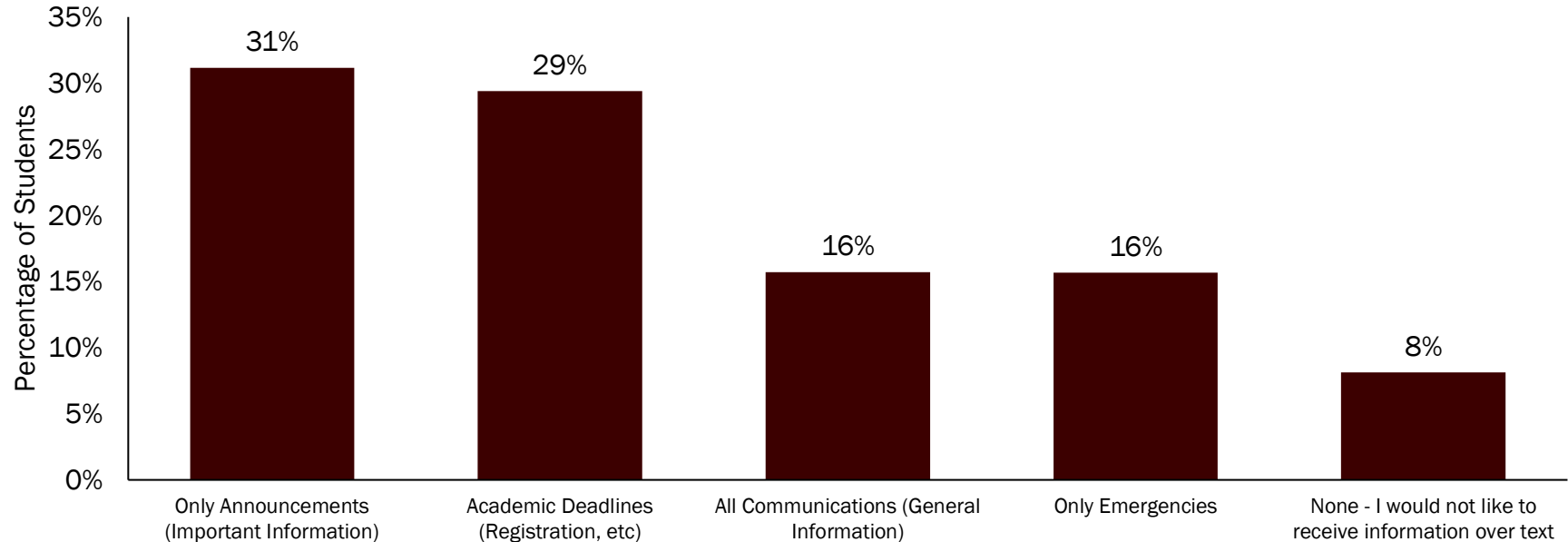
- Social Media
- Canvas
- Text Reminders





Responses: 3736

If the College of Engineering were to use text messages as a method of communication, how much information would you like to receive?



Engineering Student Organization Questions

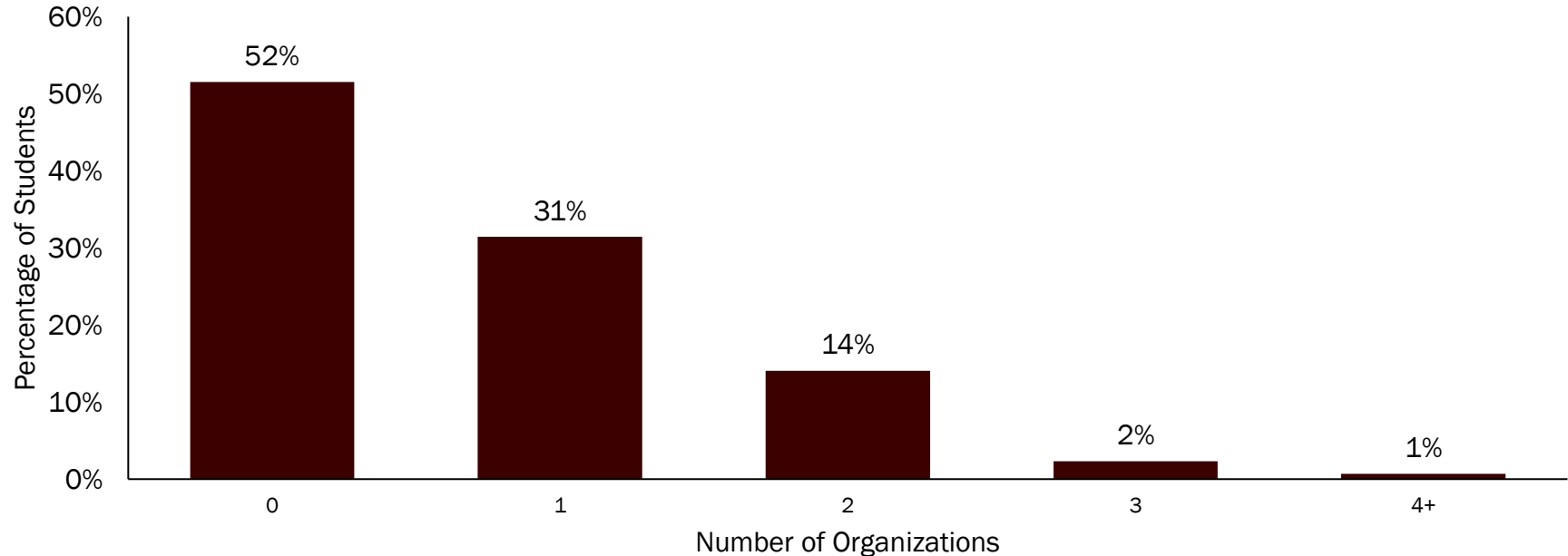
Asked to all students



Responses: 3736

How many Engineering Student Organizations (ESOs) and/or Engineering Societies are you currently involved in?

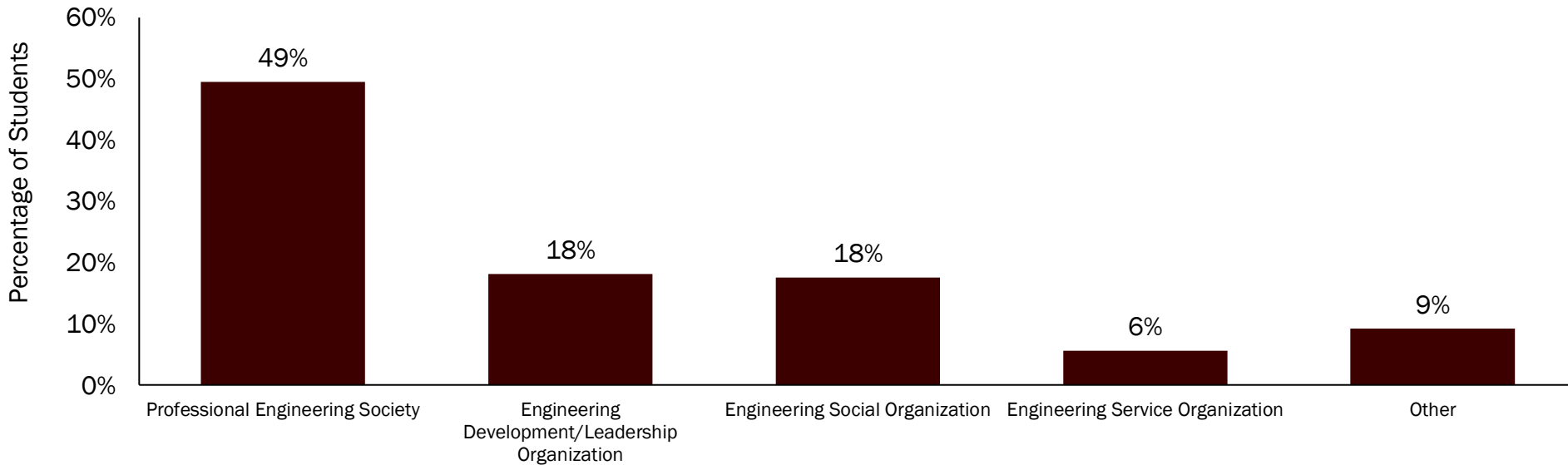
*An ESO is defined as an organization that is recognized by StuAct or the COE as an Engineering Organization.



Asked to students who are involved in 1+ organization(s)
Responses: 1943



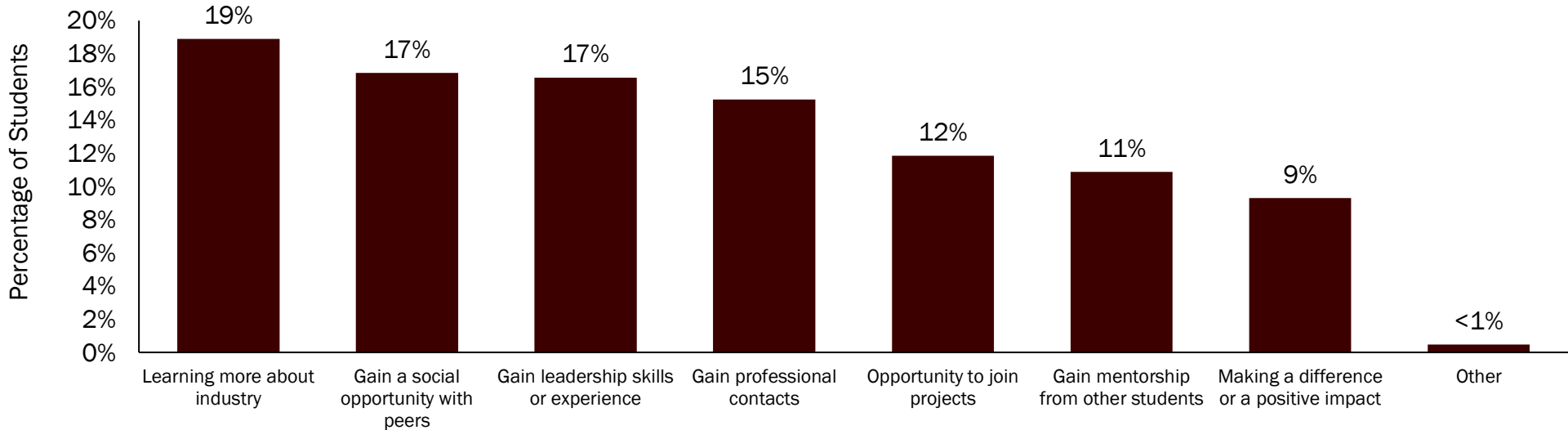
What type of Engineering Student Organizations (ESOs) and/or Engineering Societies are you involved in? (select all that apply)



Asked to students who are involved in 1+ organization(s)
Responses: 1943



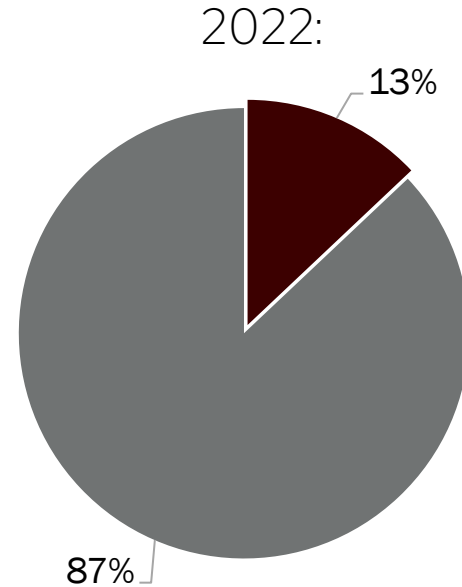
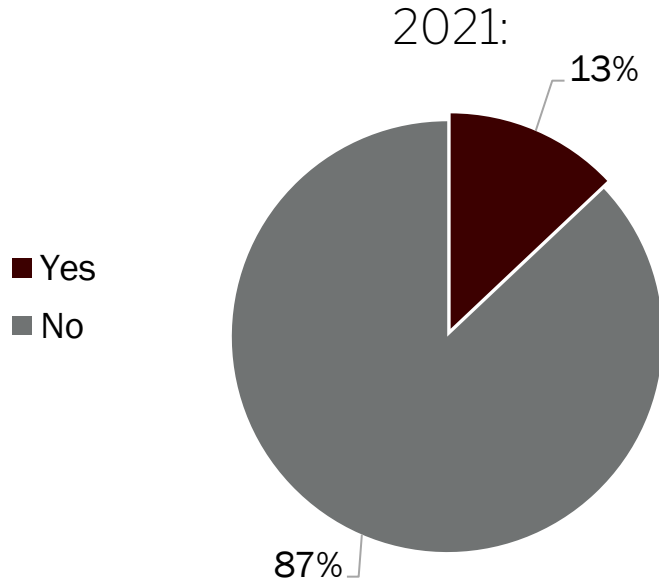
Why did you become involved in your Engineering Student Organization(s)?
(select all that apply)





Responses: 3736

Did you attend the Engineering Student Organization (ESO) Open House this semester on Wednesday, August 31st?



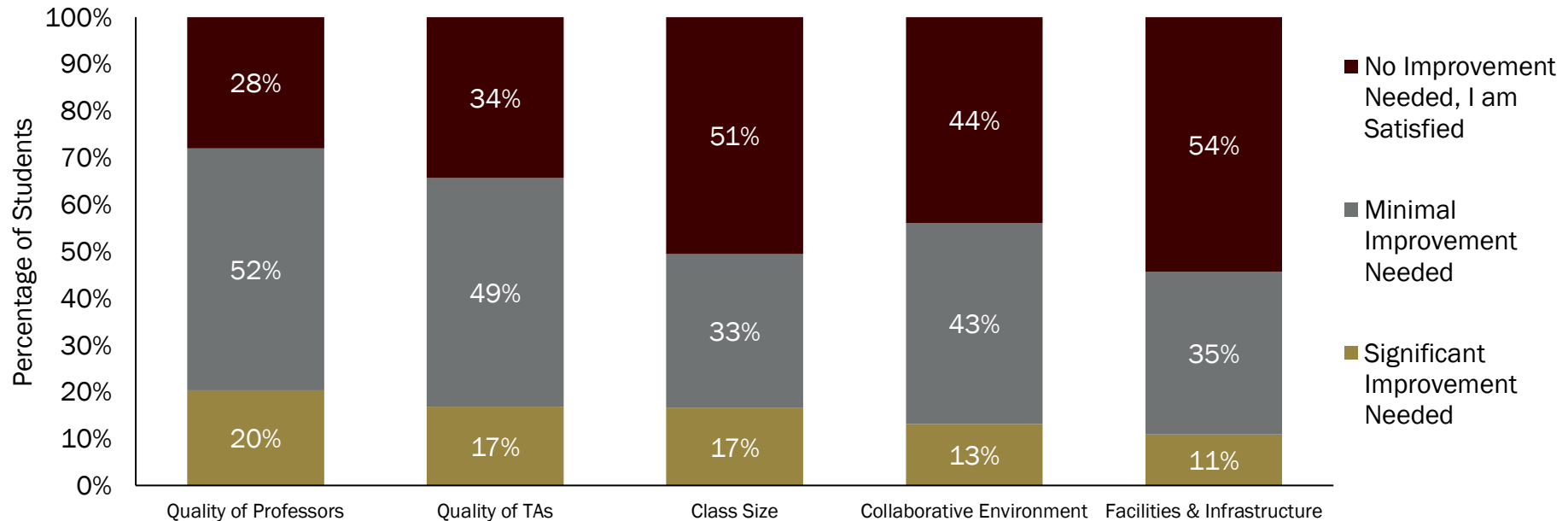
Undergraduate Student Questions

Asked to undergraduate students only



Responses: 3736

Please indicate, for each College of Engineering attribute, the level of improvement you believe is necessary.





Responses: 3736

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

Improved Selection of Professors and TAs for courses

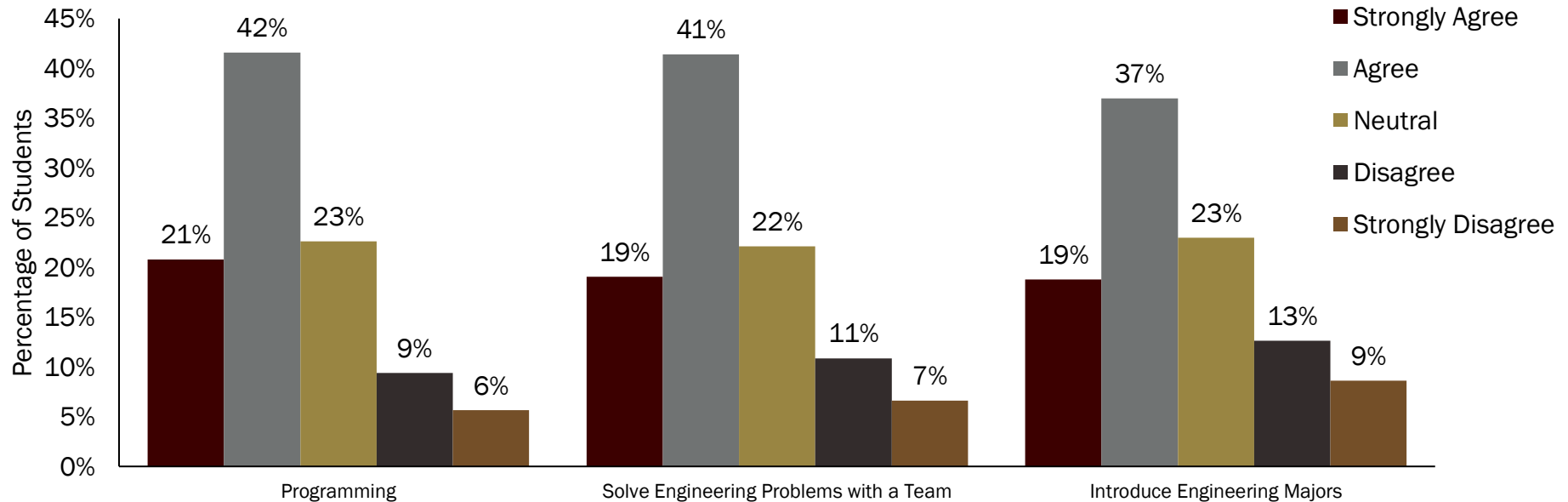
- "The quality of professors needs serious improvements. Every semester is hit or miss with the professors."
- "Quality of TAs could be improved through an interview process."
- "Quality of TAs could be improved with greater communication and actually having them understand the expectations. They shouldn't have to be learning with us."

Class Size/Registration

- "Class Size: There are not enough sections for the popular 400 level classes. Some cannot even register for their required classes for graduation because the classes are full before their registration ticket opens."

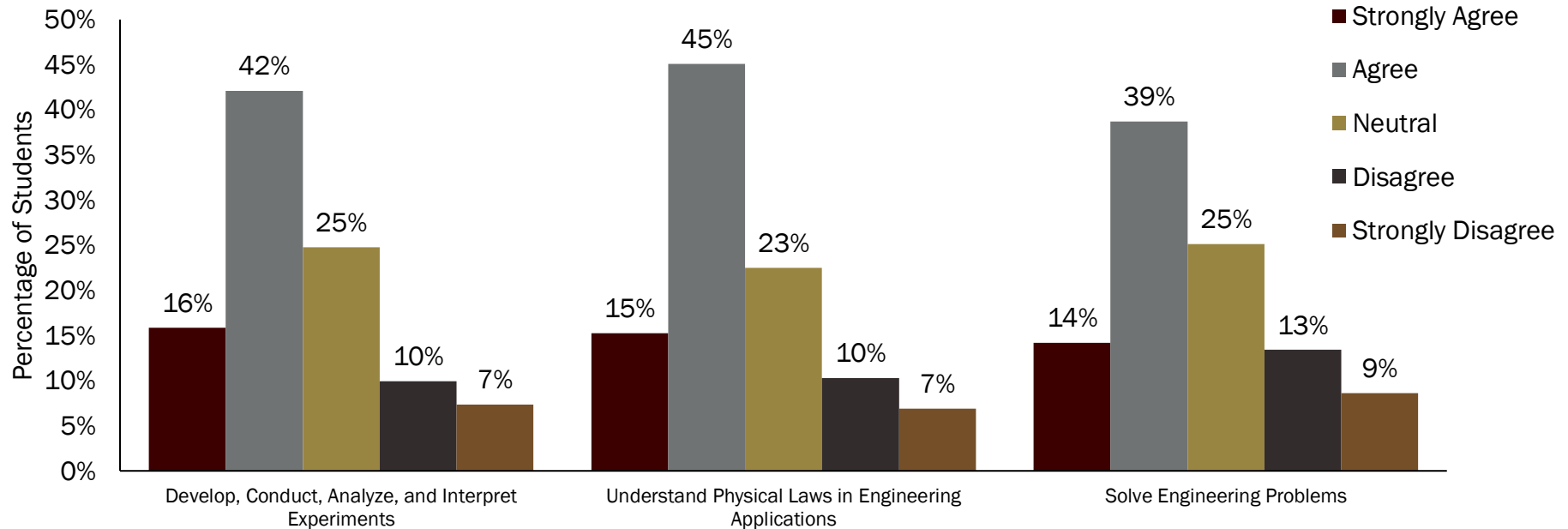
Asked to non-first year undergraduate students
Responses: 2268

My ENGR 102 coursework adequately prepared me to be an upper level engineering major in the following ways.



Asked to non-first year undergraduate students
Responses: 2142

My ENGR 216 and 217 adequately prepared me to be an upper-level engineering major in the following ways.



Asked to non-first year undergraduate students
Responses: 2142



ENGINEERING
TEXAS A&M UNIVERSITY

Please elaborate on how the coursework did or did not adequately prepare you to be an upper-level engineering major. (*open ended*)

Inconsistencies Between Professors

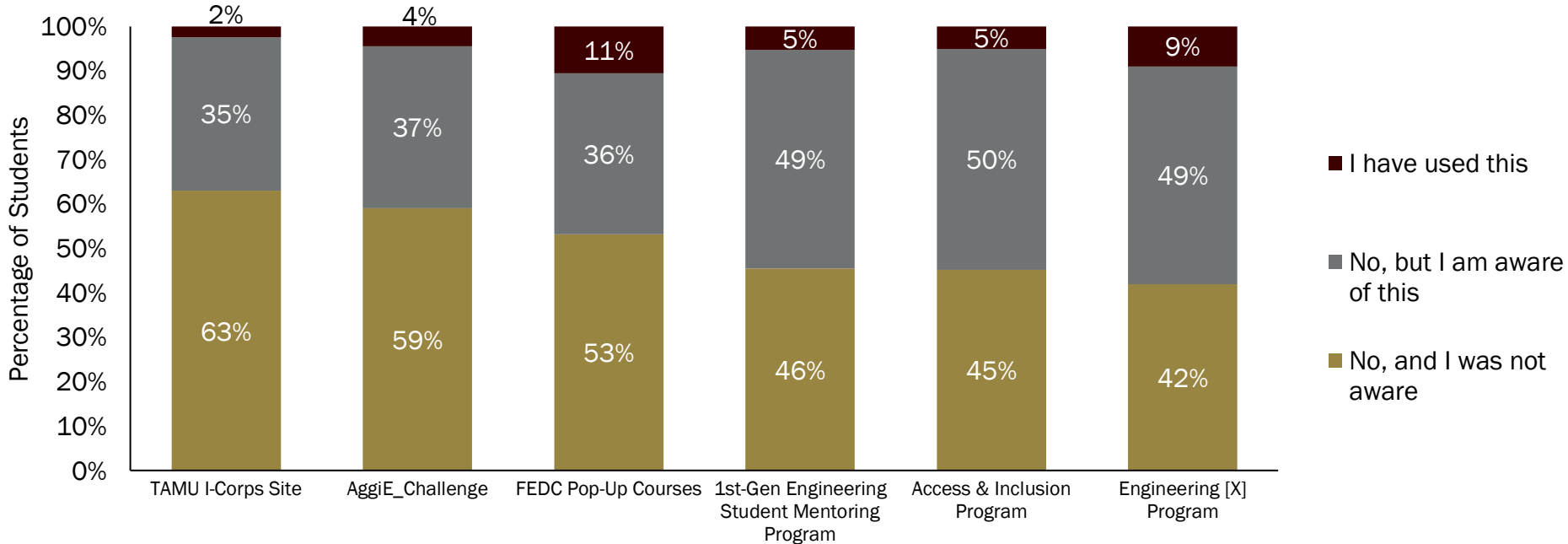
- "ENGR 217 is taught differently by every professor."
- "It was extremely unfair that some professors let their students take the course in a group while others had to do it alone and closed note."

Course Topics/Structure

- "ENGR 216/217 could maybe be condensed into one class or a class with only the lab component."
- "I found that the lecture was simply a watered-down version of my PHYS 206/207 courses and presented minimal new information."

Responses: 3736

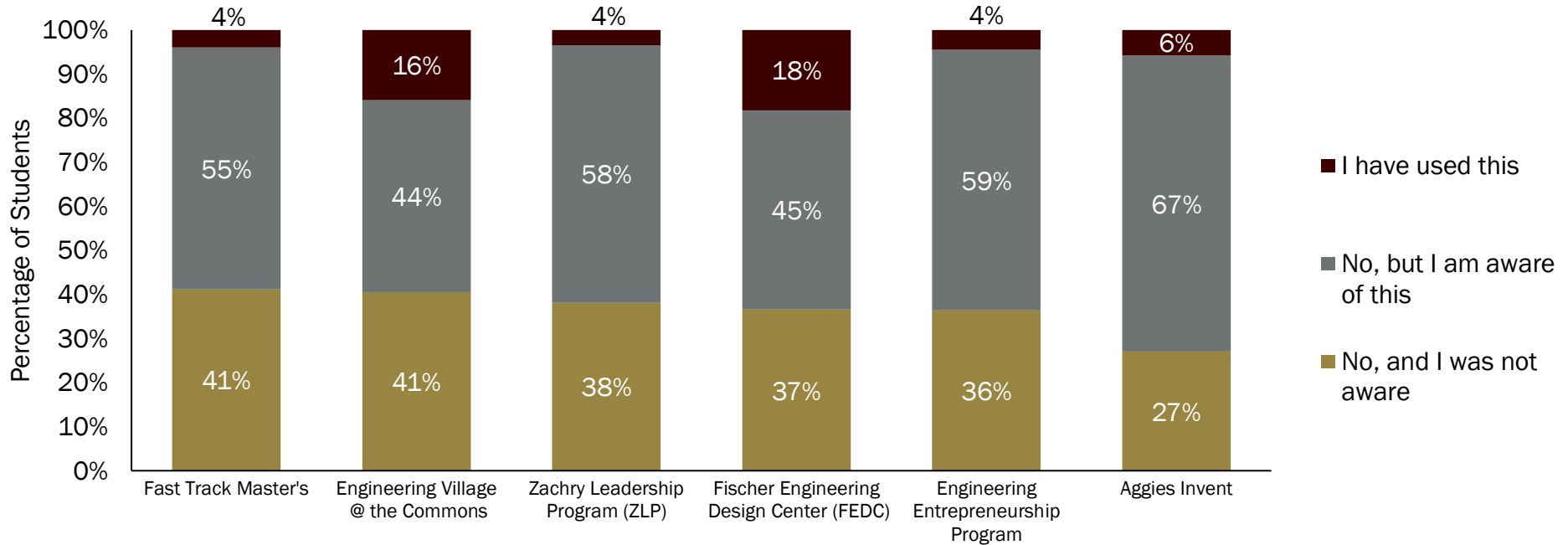
Have you used or participated in the following Programs and/or High-Impact Experiences during your time in the College of Engineering?





Responses: 3736

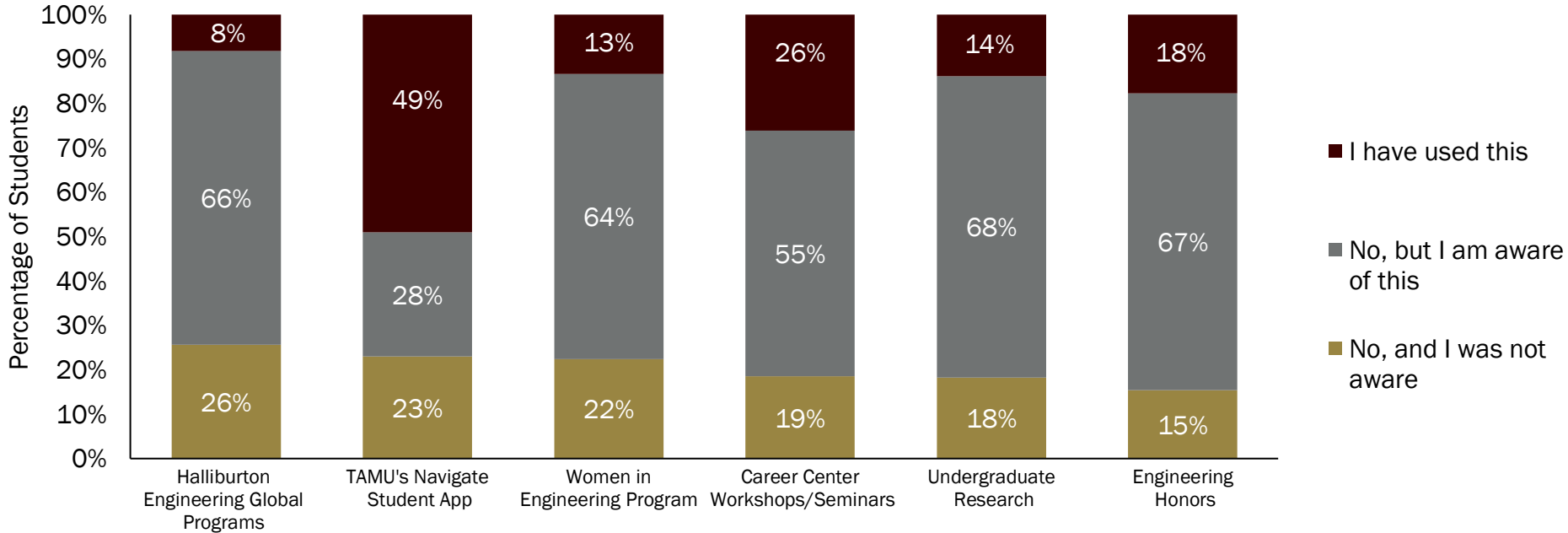
Have you used or participated in the following Programs and/or High-Impact Experiences during your time in the College of Engineering?



Responses: 3736



Have you used or participated in the following Programs and/or High-Impact Experiences during your time in the College of Engineering?





Responses: 3736

What suggestions do you have to improve the Programs and/or High Impact Experiences above? (*open ended*)

More awareness for programs

- "I just think that these programs should have more advertising because they sound enjoyable and like a good experience."
- "Maybe mention them in ENGR 102."

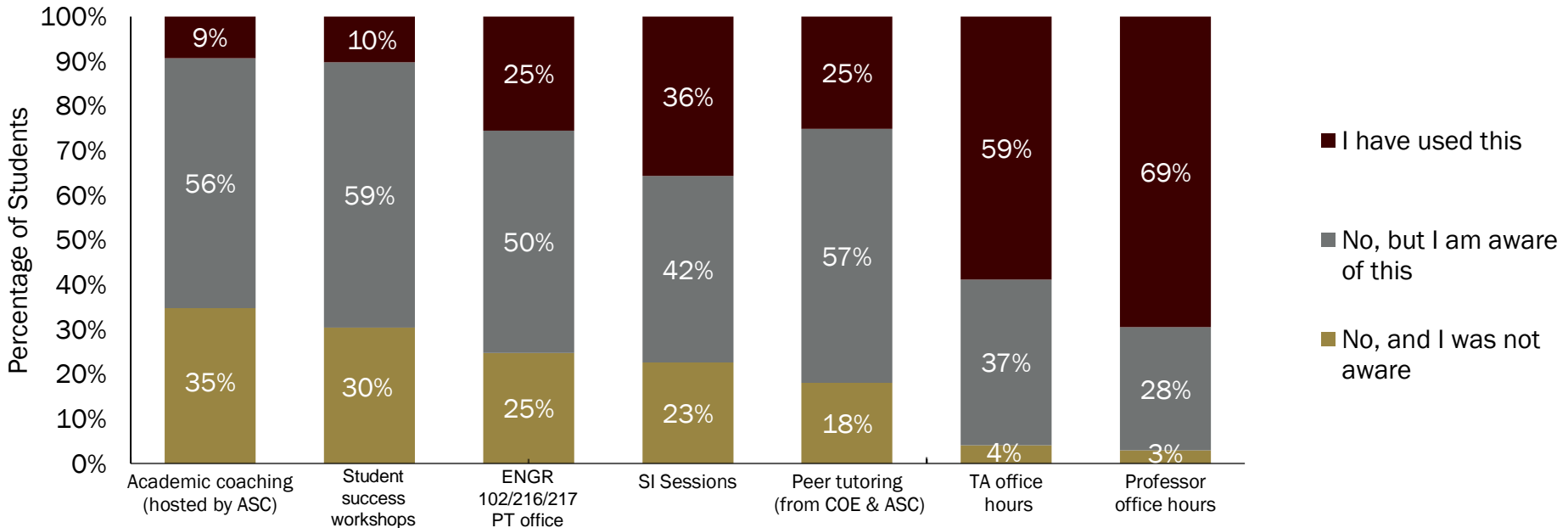
Program Specific Suggestions

- "AggiE_Challenge needs to be better advertised and made clearer, such as what students will end up doing and learning."
- "Adjusting Engineering Honors Requirements: entry requirements are too basic, but graduation requirements, such as research, are too steep."

Responses: 3736

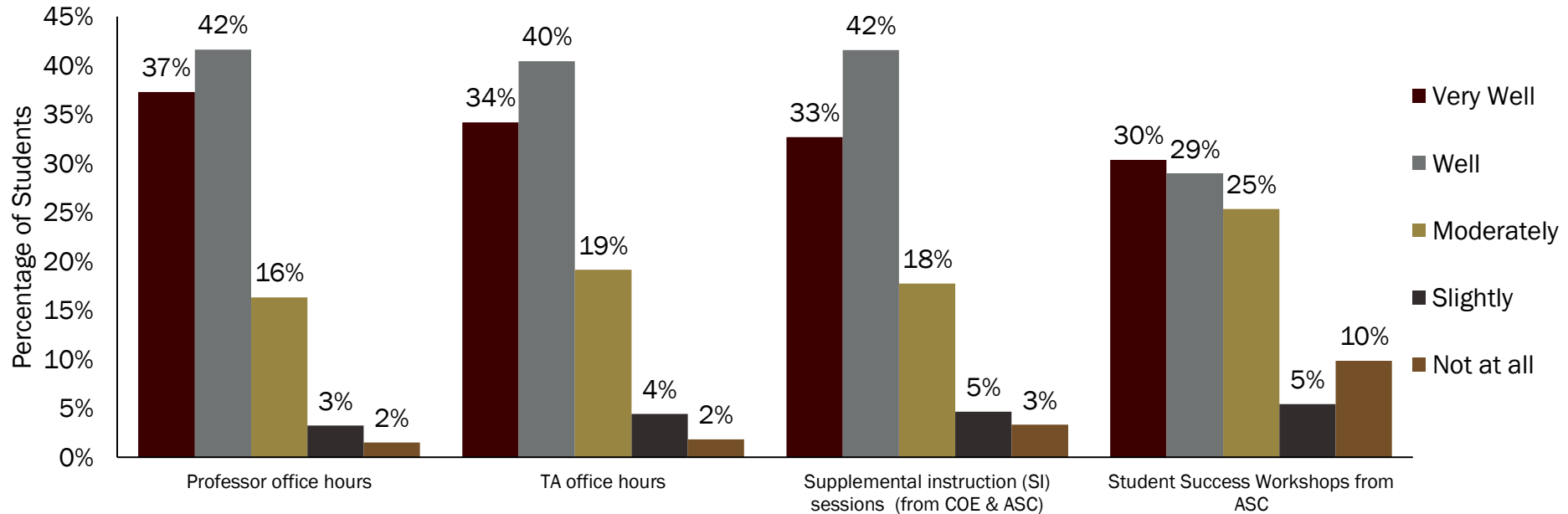


Have you used or participated in the following Academic Support Services during your time in the College of Engineering?



Asked to students who have participated in 1+ services
Responses: 497 - 2626

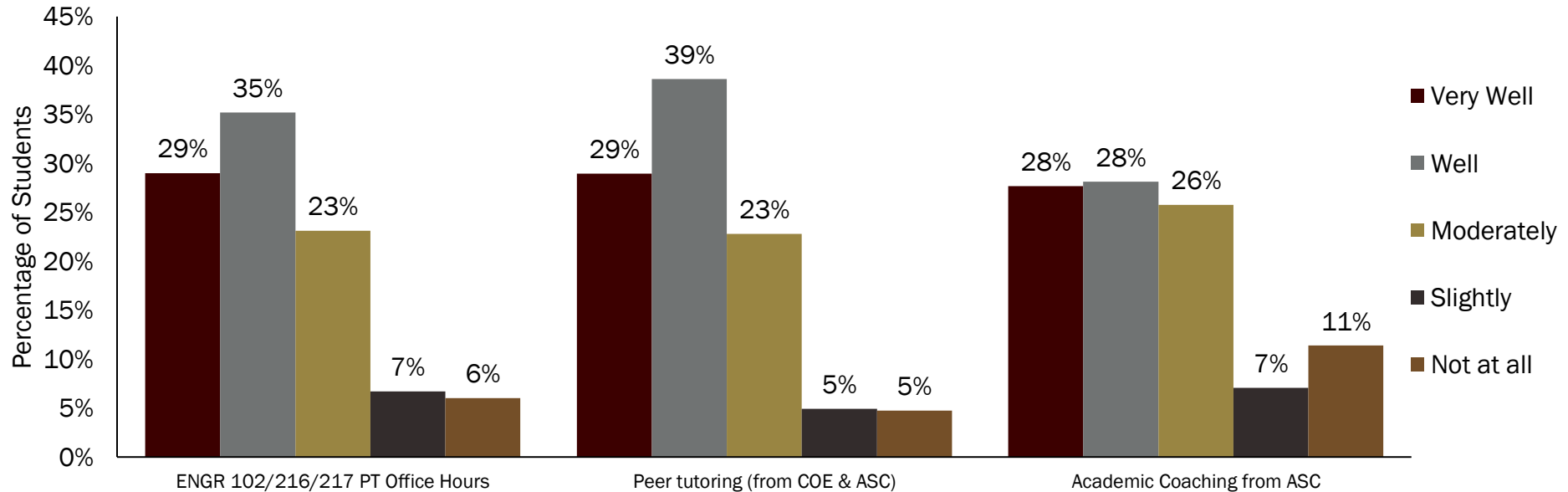
Of the College of Engineering Academic Support Services you have used, how well did they meet your needs?



Asked to students who have participated in 1+ services
Responses: 497 - 2626



Of the College of Engineering Academic Support Services you have used, how well did they meet your needs?



Asked to students who have participated in 1+ services
Responses: 2142



ENGINEERING
TEXAS A&M UNIVERSITY

What additional College of Engineering Academic Support Services would be helpful to you in meeting your needs? (*open ended*)

More Availabilities for Tutoring Opportunities

- "More peer teachers and tutors are needed, there are way too many students who go to office hours and not enough peer teachers."
- "More peer teacher centrals like the one in PETR 127 for computer science and engineering are needed."

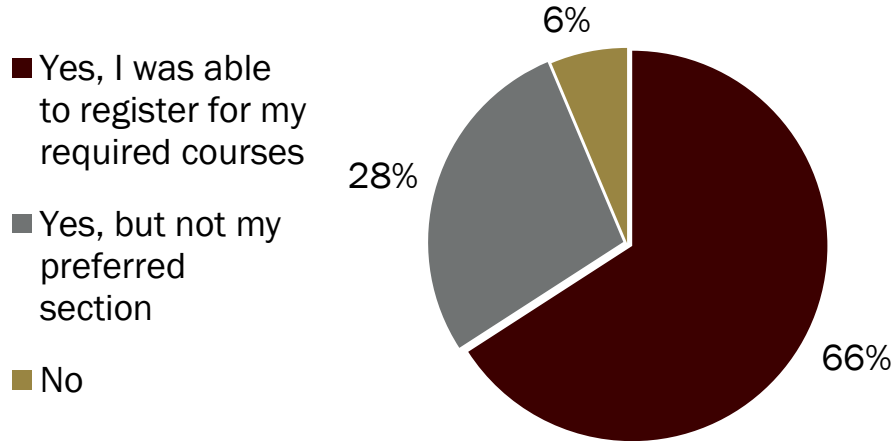
Upper-Level, Course Specific Academic Support Options

- "Specific course tutoring would be helpful. Especially for the upper-level/major-specific classes."
- "Discord help for more classes. I know there are Discords for classes like CSCE 221, 313, and 314. They have constant office hours with a bunch of different PTs and TAs."



Responses: 3736

When registering for the Fall 2022 semester, were you able to register for the courses that are required for your major?



Top courses students could not register for: (*open ended*)

1. ISEN 613
2. ISEN 615
3. ENGR 217
4. ISEN 210
5. PHYS 206/ENGR 216

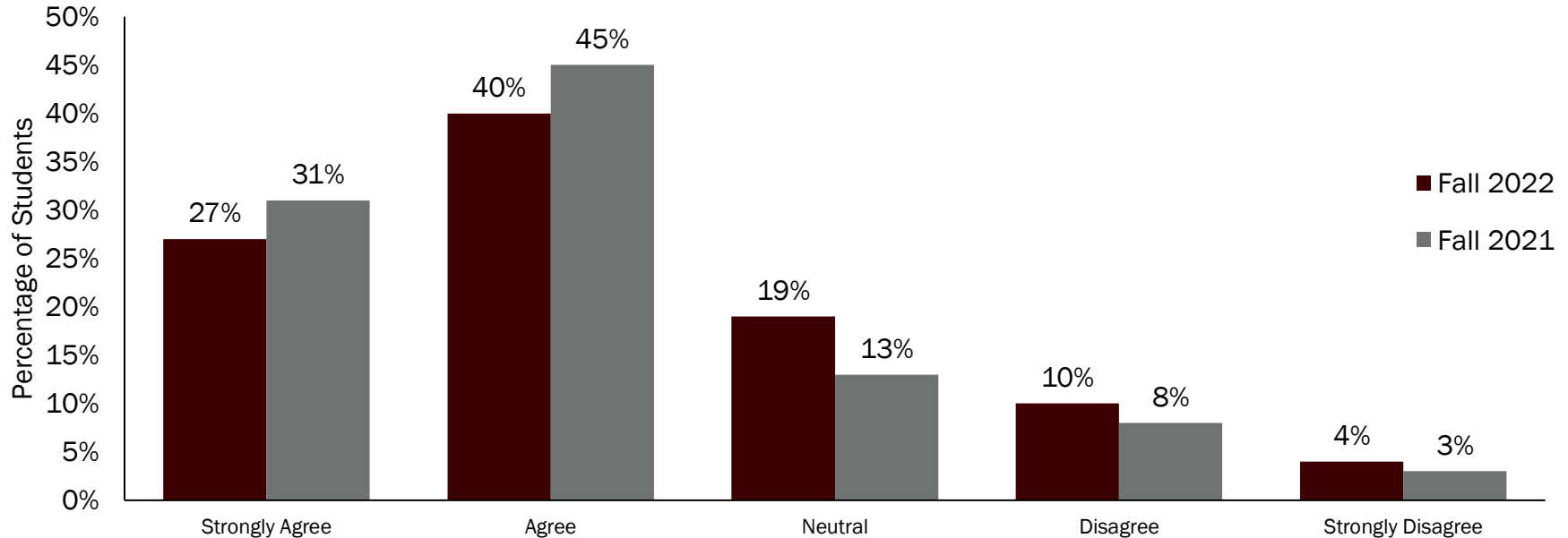
Entry-to-a-Major Questions

Asked to all students who said that they had completed
ETAM



Responses: 1909

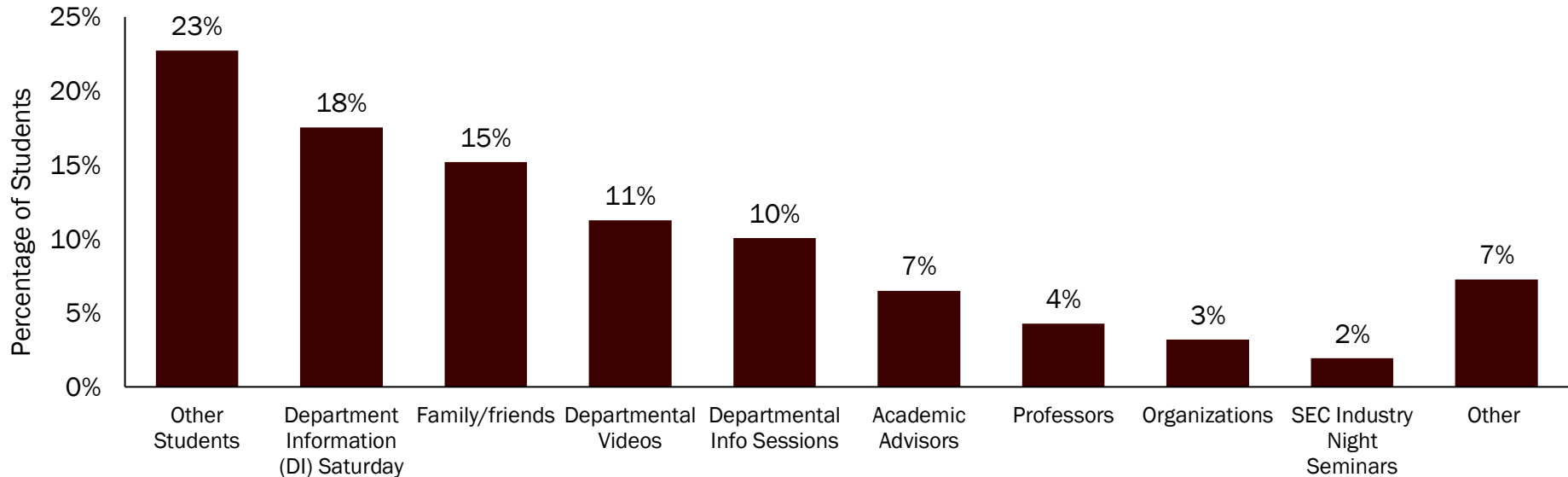
Did you feel as if you received sufficient information about the different engineering majors to make an informed decision regarding choosing your major?





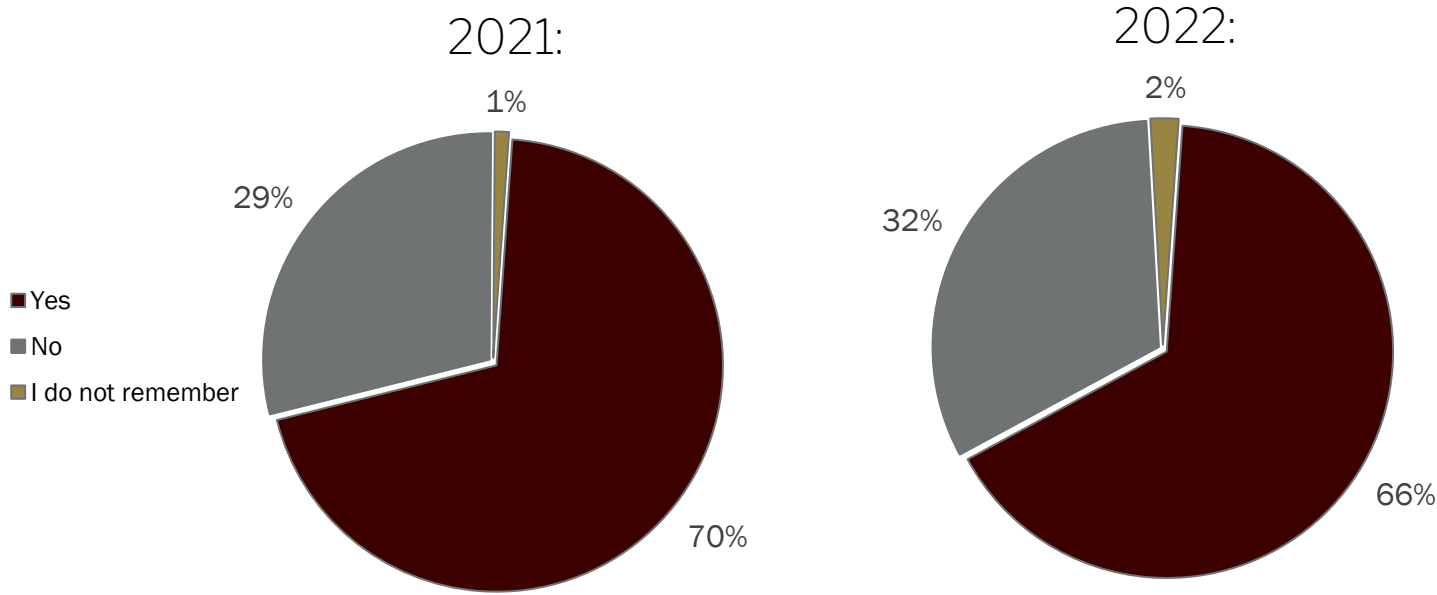
Responses: 1909

During your first year at Texas A&M University, what is/was the most helpful source of information when selecting or confirming your choice of major for the ETAM process?



Asked to 2nd year undergraduate students
Responses: 509

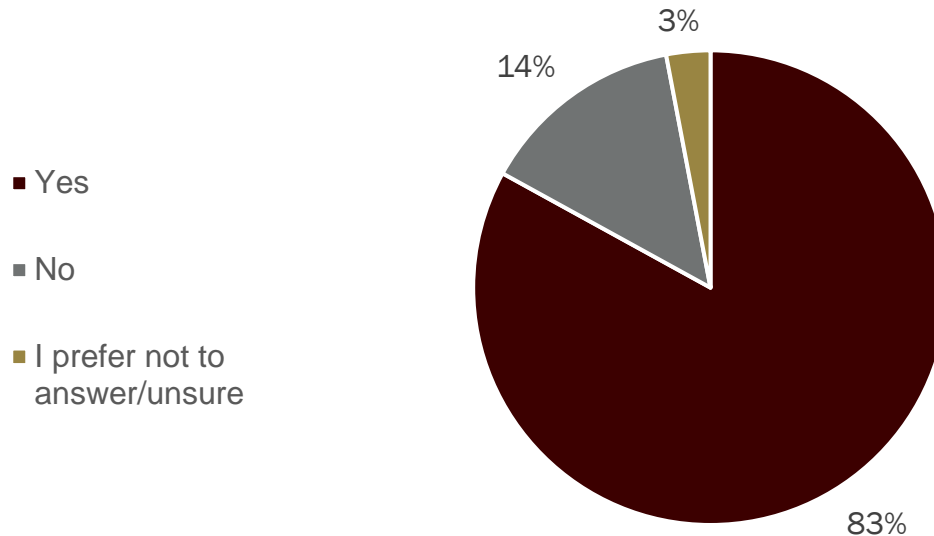
To the best of your recollection, when undergoing the ETAM process, was your first-choice major the same major you chose when you applied to Texas A&M University?



Asked to 3rd year undergraduate students
Responses: 532



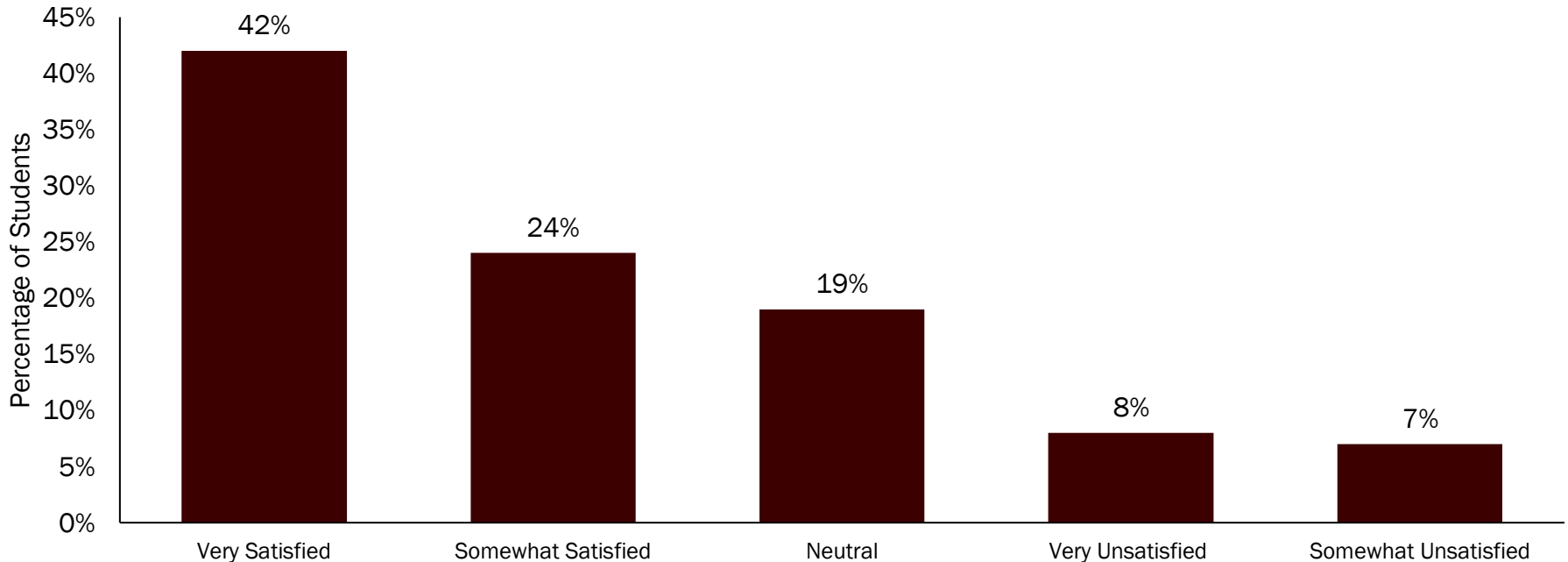
Was the major you were offered during the ETAM process your first preference when you applied to ETAM?



Asked to 3rd year undergraduate students who answered 'No'
Responses: 75



After spending time in your major following the ETAM process, how satisfied are you with your offered major?



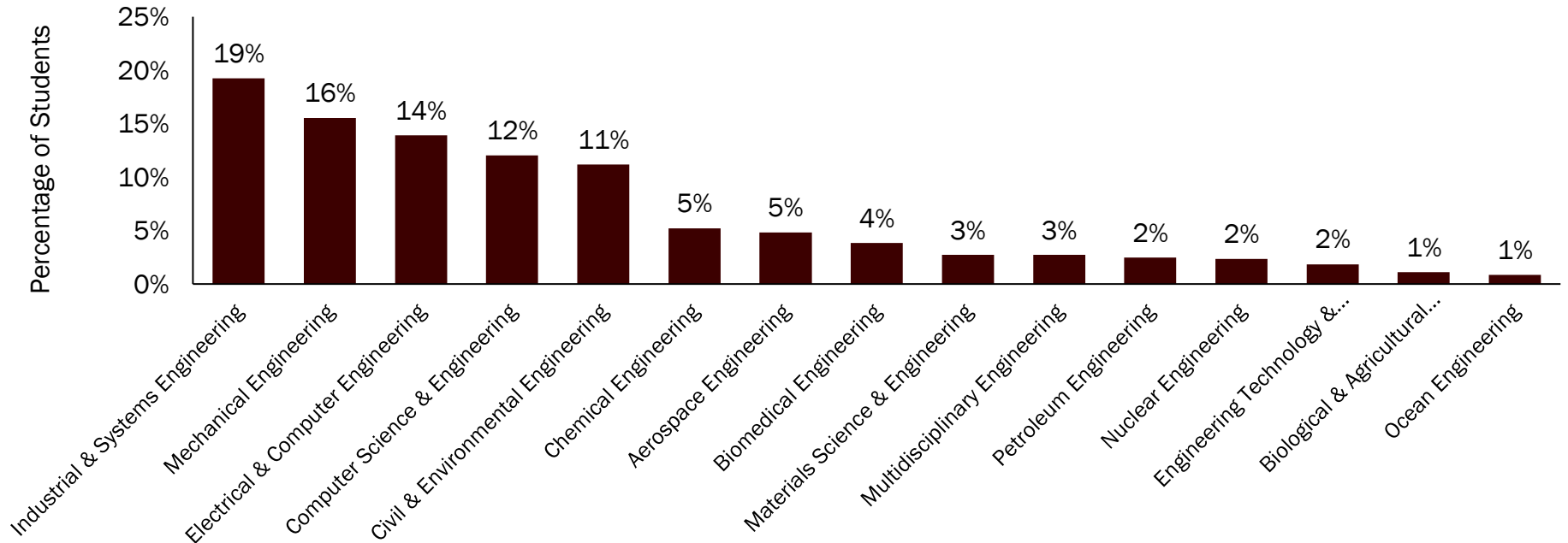
Graduate Student Questions

Asked to Master's & PhD students



Responses: 805

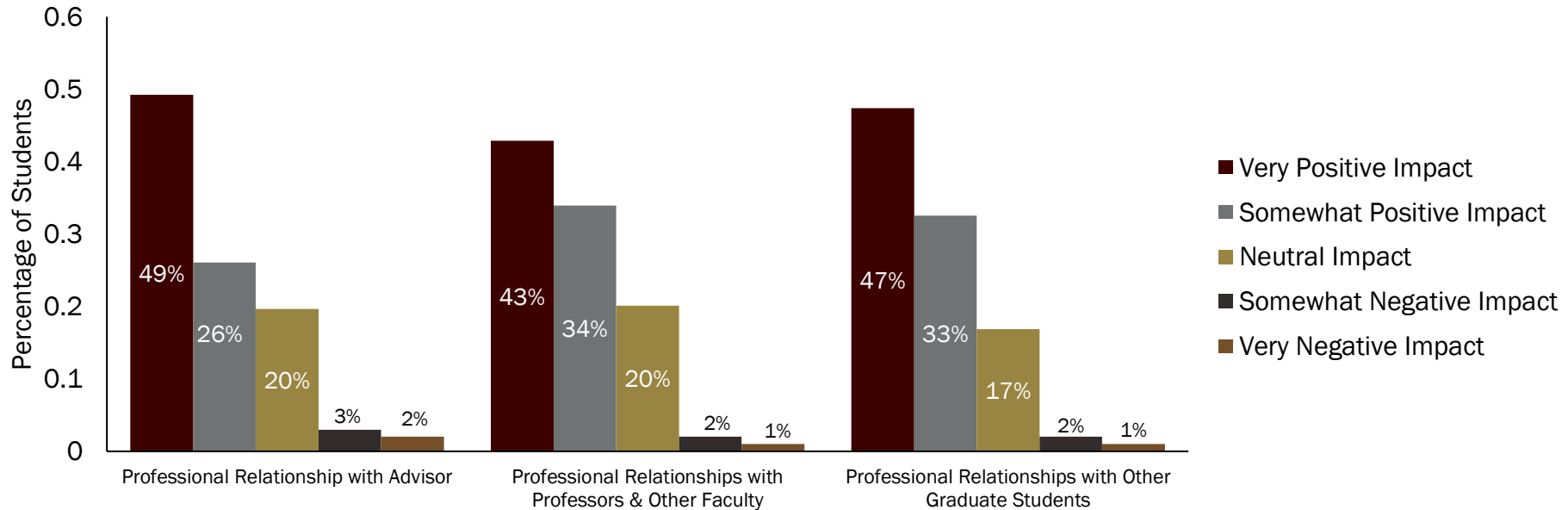
In which department are you enrolled as a Graduate student?





Responses: 805

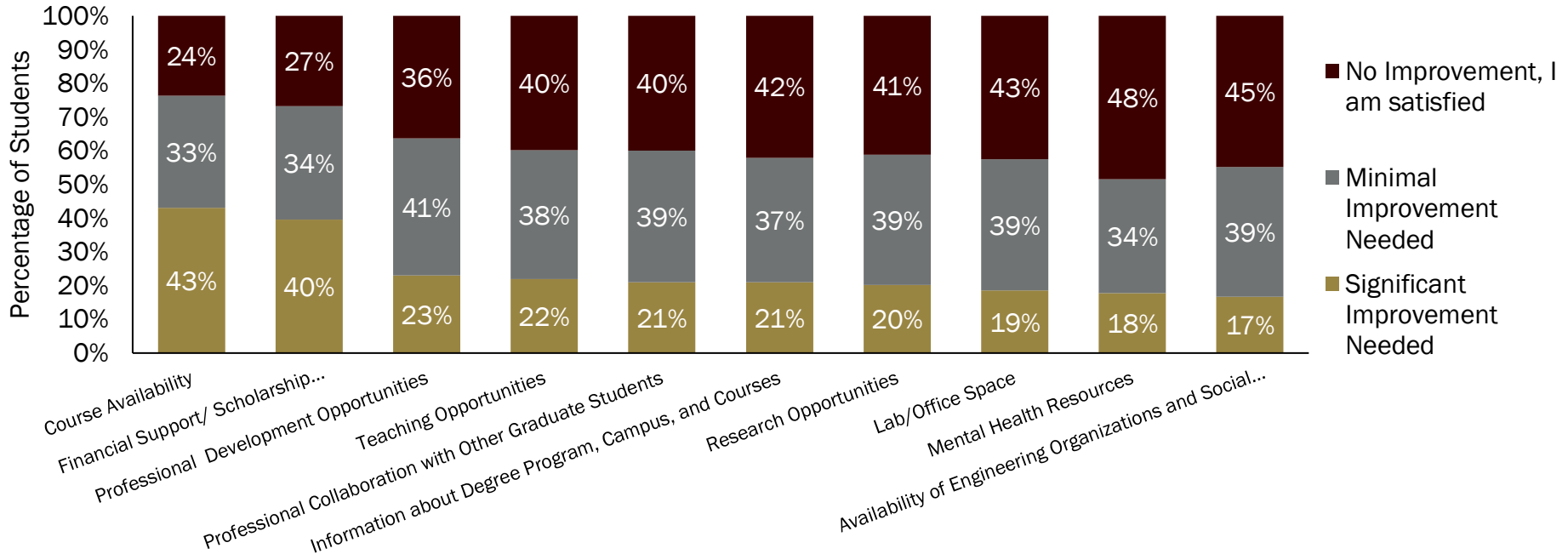
Please rate the impact of the following relationships on your Graduate Student Experience.





Responses: 805

Please indicate, for each College of Engineering Graduate Student attribute, the level of improvement you believe is necessary.





Responses: 117

Please provide any suggestions you may have for the College of Engineering Graduate Student attributes you believe could be improved. (*open ended*)

Emphasis on Course Availability

- “**Course availability** is a significant issue faced by many... **Not having enough seats or changing professors last minute** is a major issue I have faced.”
- “All of my **courses are offered only in the spring or fall**, with no summer or winter semester options. This means I have one chance to take everything, or I will have to extend my degree plan.”
- “Please offer online options, summer graduate courses, or make popular and core curriculum courses available for spring and fall semesters.”

CAPS

- “CAPS is great in theory, but with the **wait times** just to get a consultation meeting and then another month long wait to actually start getting counseling, is less effective at actually helping with mental health issues.”

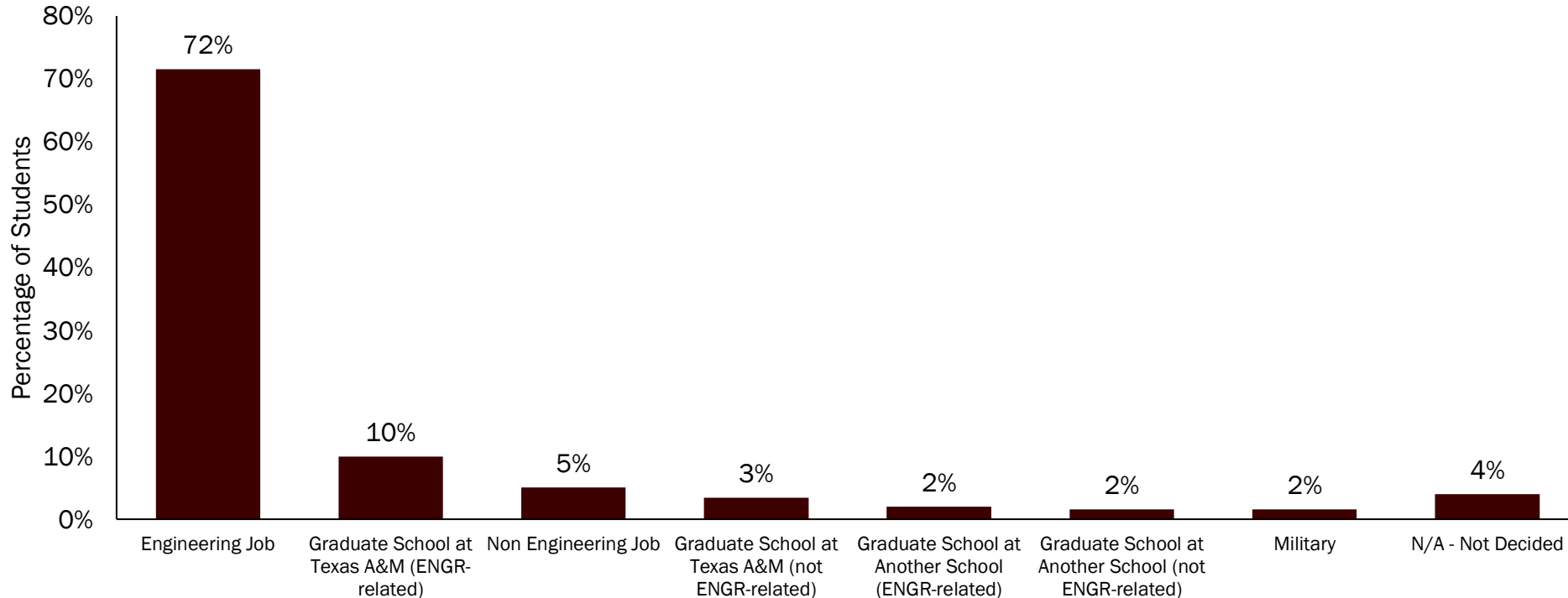
Post-Graduation Questions

Asked to students graduating in December 2022
or May 2023



Responses: 755

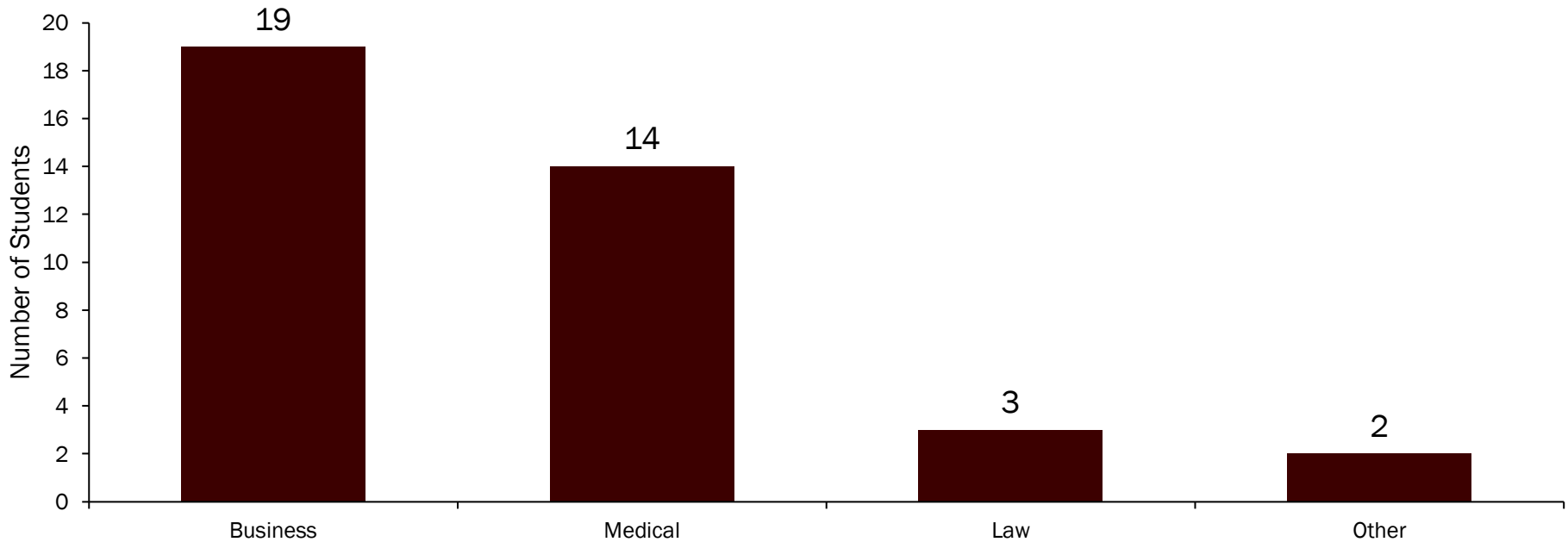
Which one of the following will you pursue after you graduate?



Asked to students pursuing non-engineering grad school
Responses: 38



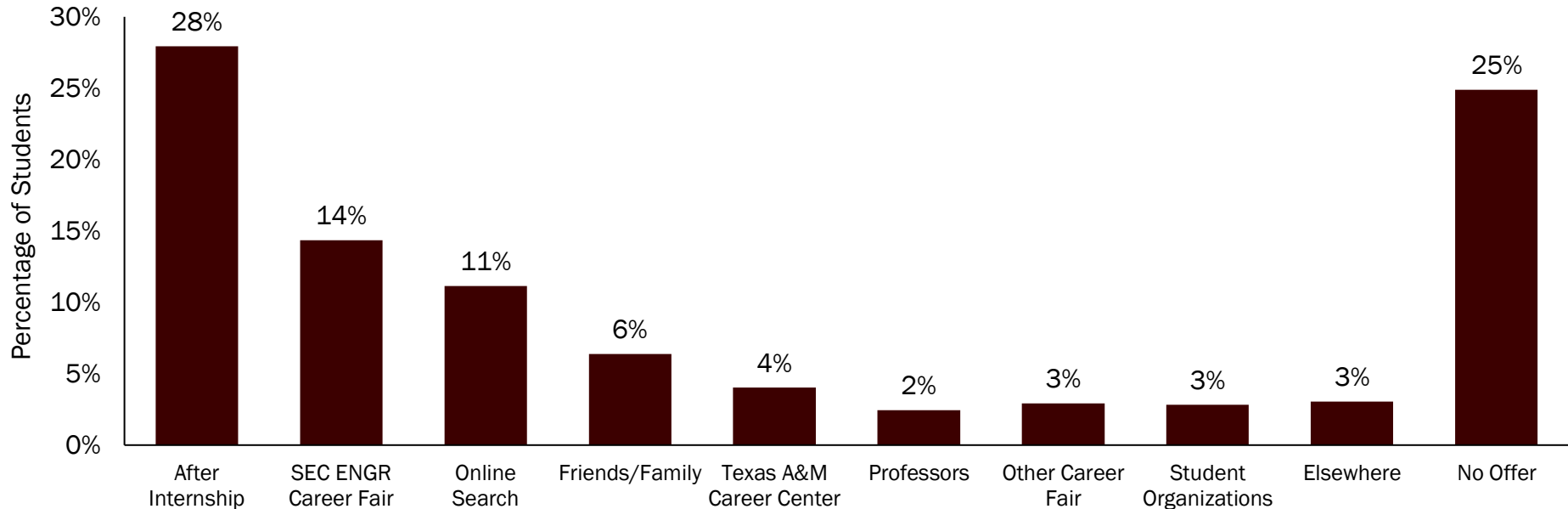
What kind of graduate school are you pursuing after you graduate?



Asked to students pursuing full-time job opportunity
Responses: 816

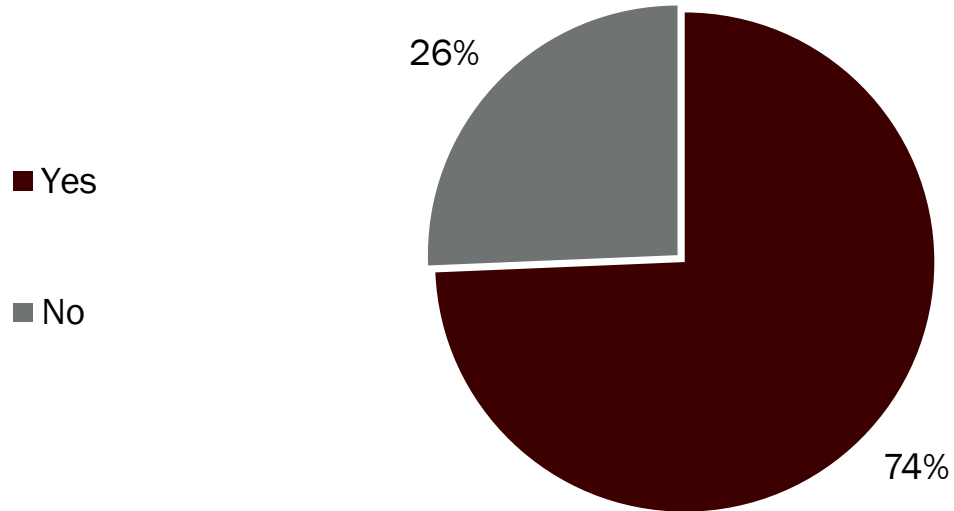


How did you obtain your full-time job opportunity?
(select all that apply)



Asked to students pursuing full-time job opportunity
Responses: 569

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



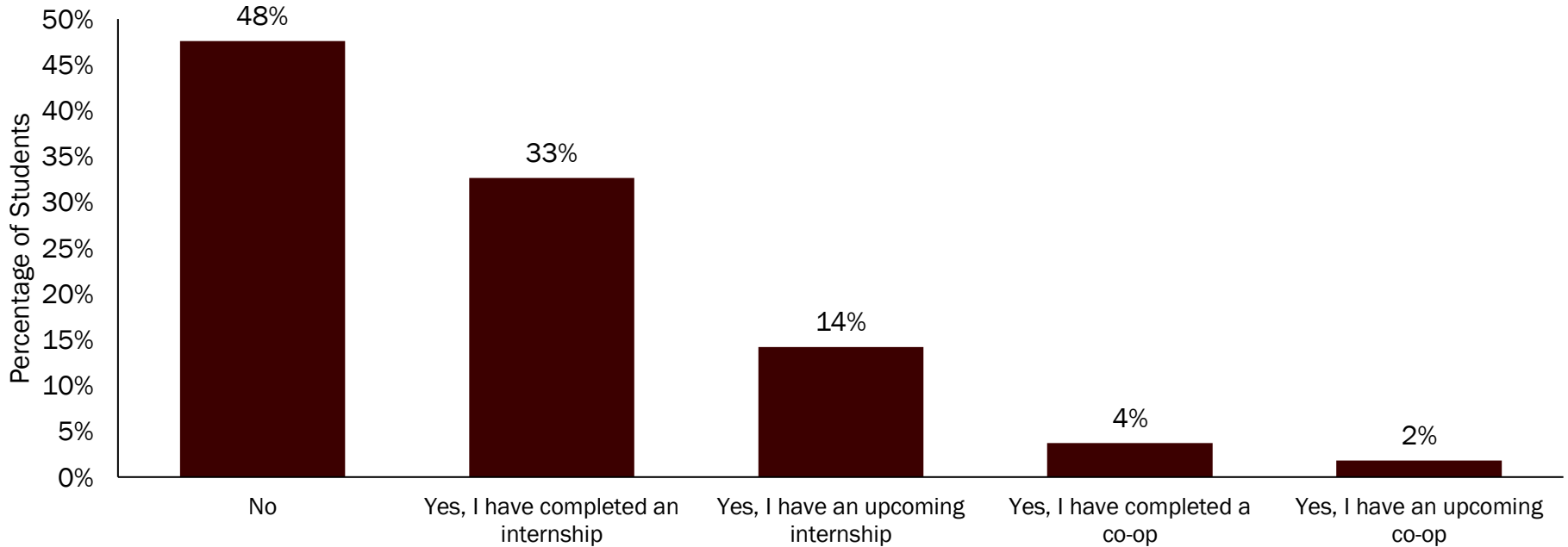
Internship and Professional Experiences Questions

Asked to all non-first year students



Responses: 3151

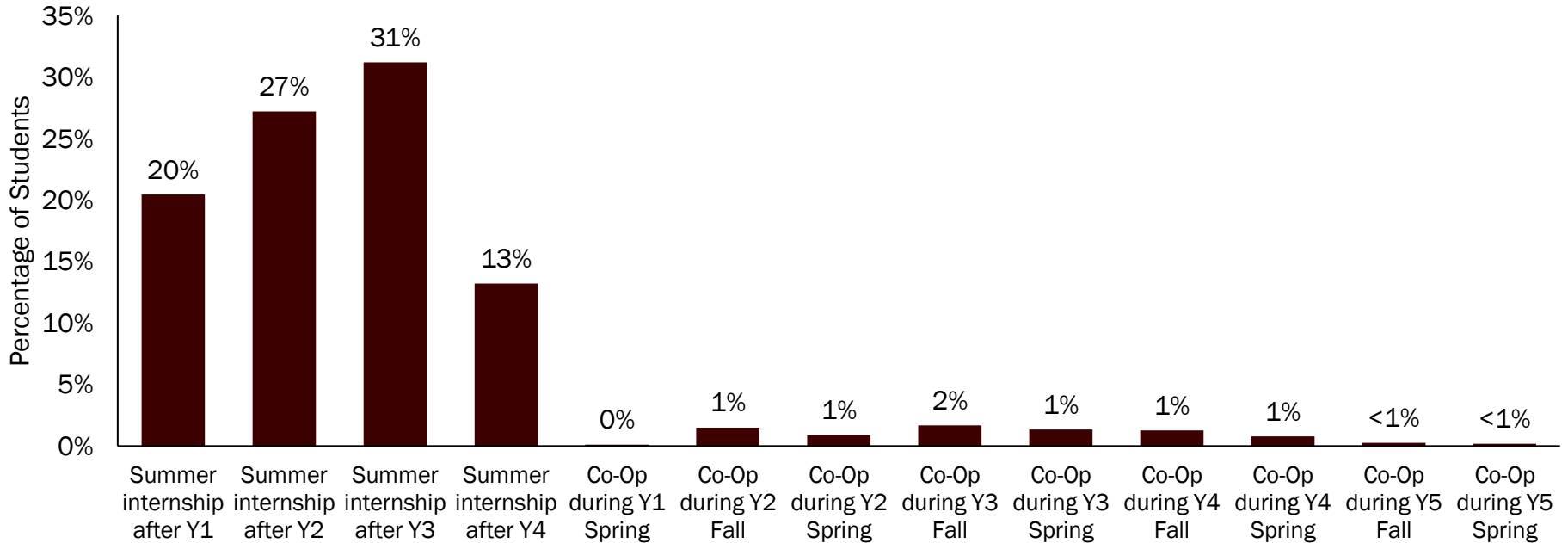
Have you completed an internship or co-op or accepted an offer for the Spring 2023 or Summer 2023 semesters? (*select all that apply*)



Asked to students who have completed an internship/co-op
Responses: 1673



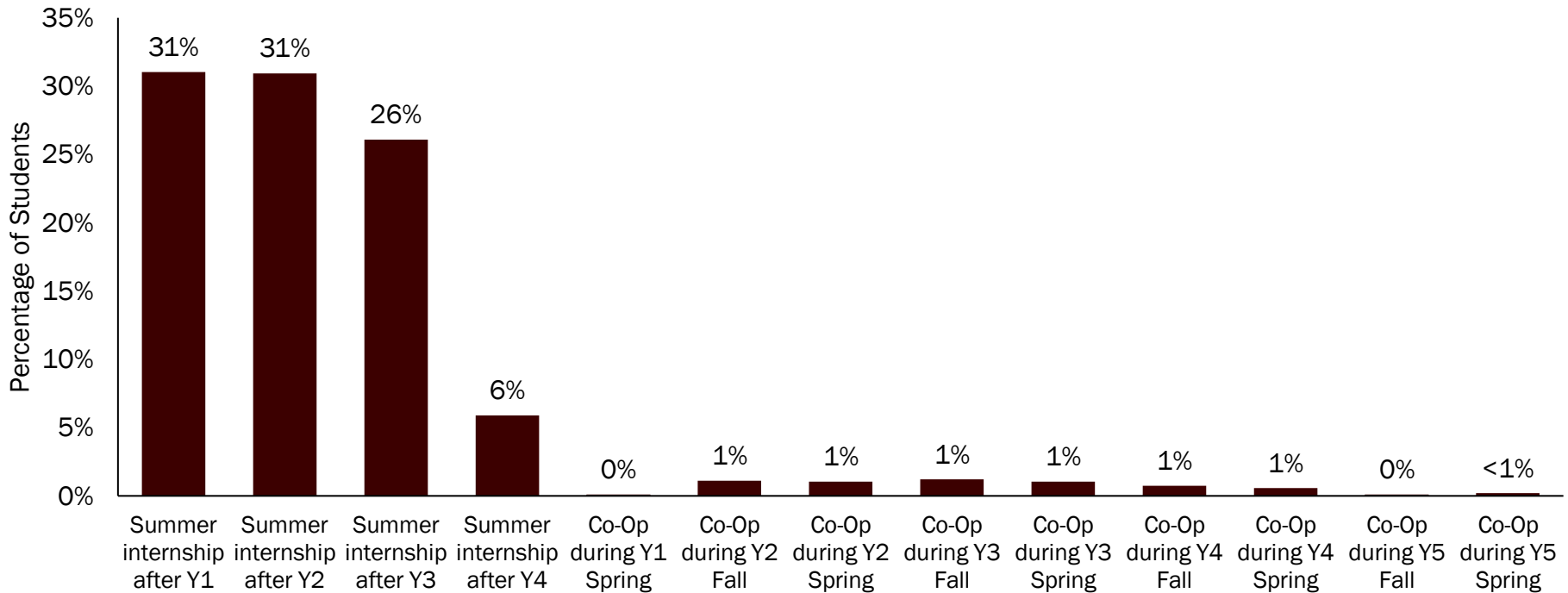
Classify your internship/co-op experience(s). *(select all that apply)*



Asked to students who have completed an internship/co-op
Responses: 1070



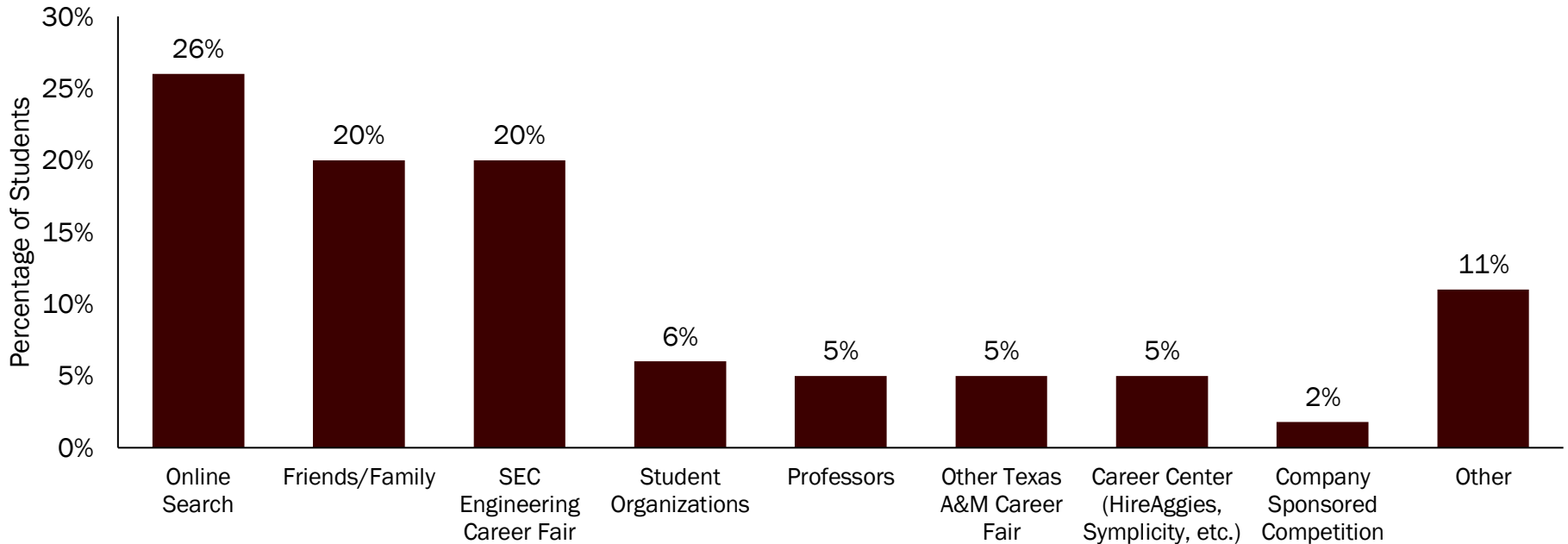
When was your *first* internship/co-op experience?



Asked to students who have completed an internship/co-op
Responses: 1722

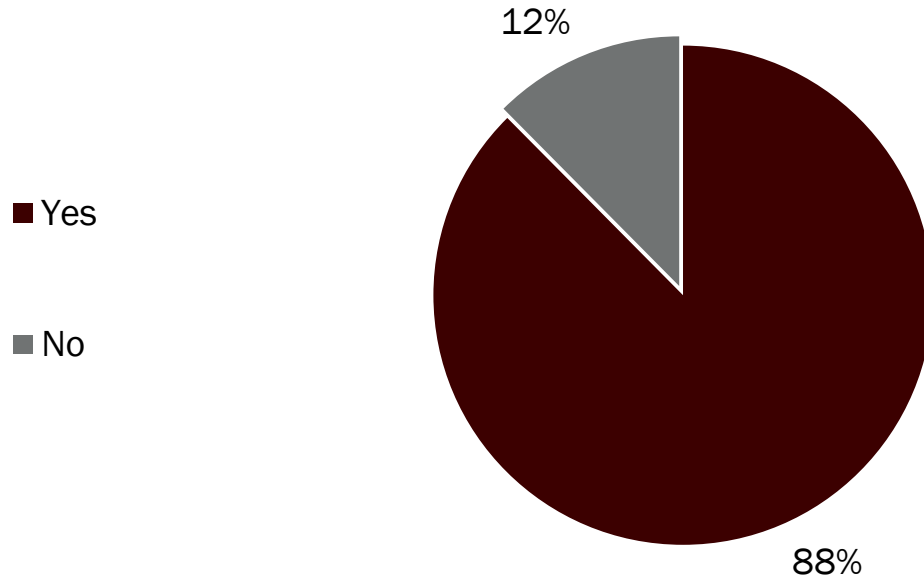


How did you obtain your internship/co-op experience(s)?
(select all that apply)



Asked to students pursuing an internship/co-op
Responses: 1070

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



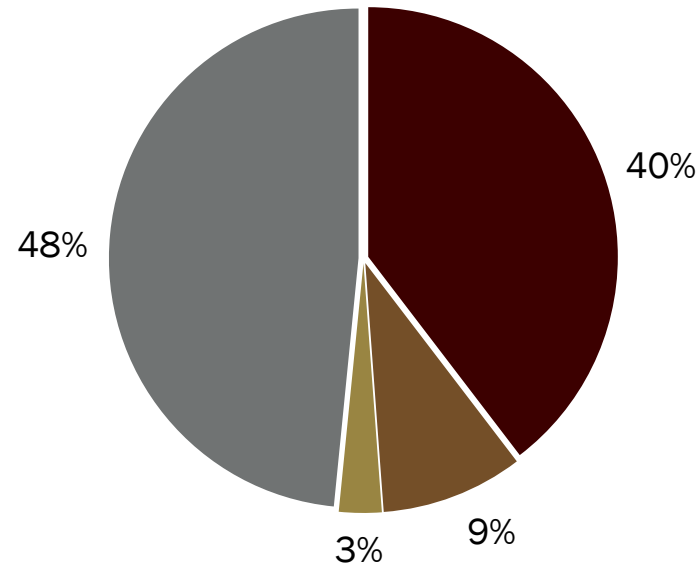
Career Fair Questions

Asked to all students

Responses: 3736

Did you attend the Fall 2022 SEC Engineering Career Fair?

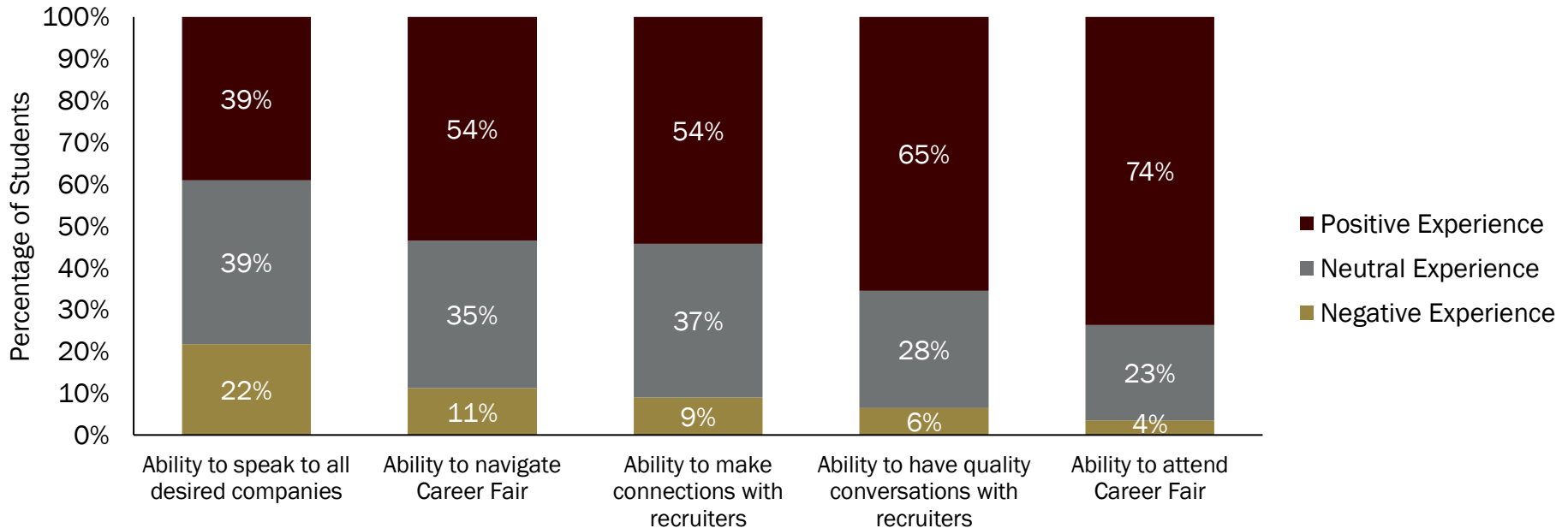
- Yes, in-person only
- Yes, in-person and virtually
- Yes, virtual only
- No



Asked to students who attended the in-person Career Fair
Responses: 1824

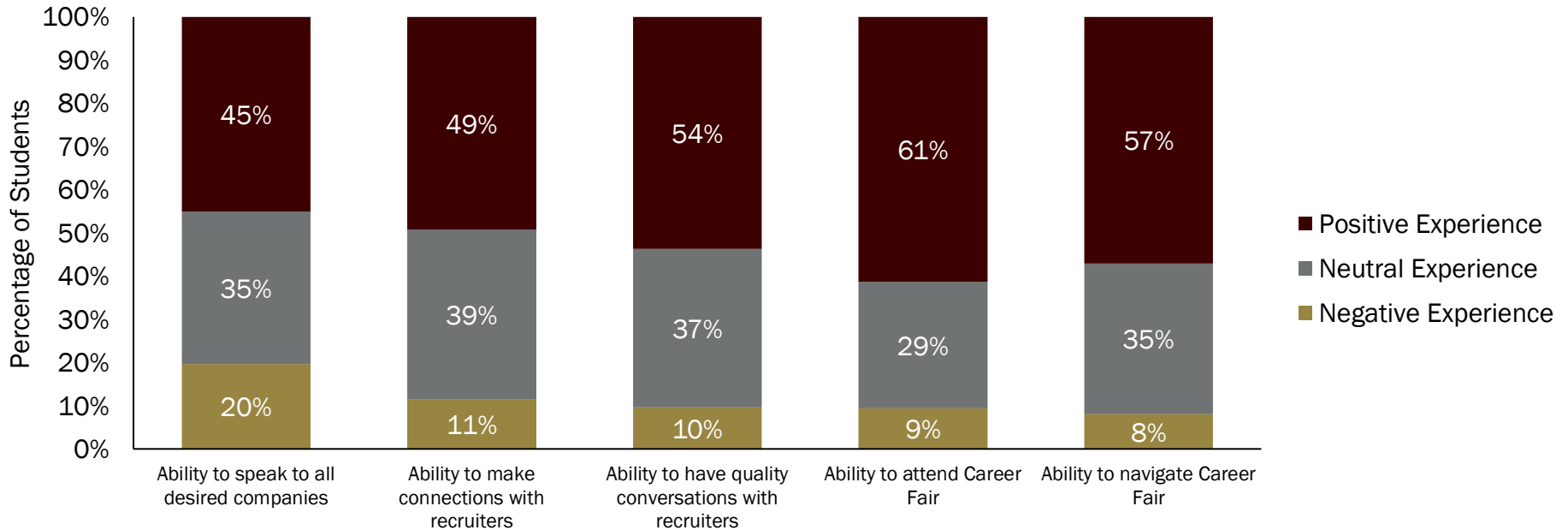


Please rate your experience of the following statements for the in-person Career Fair



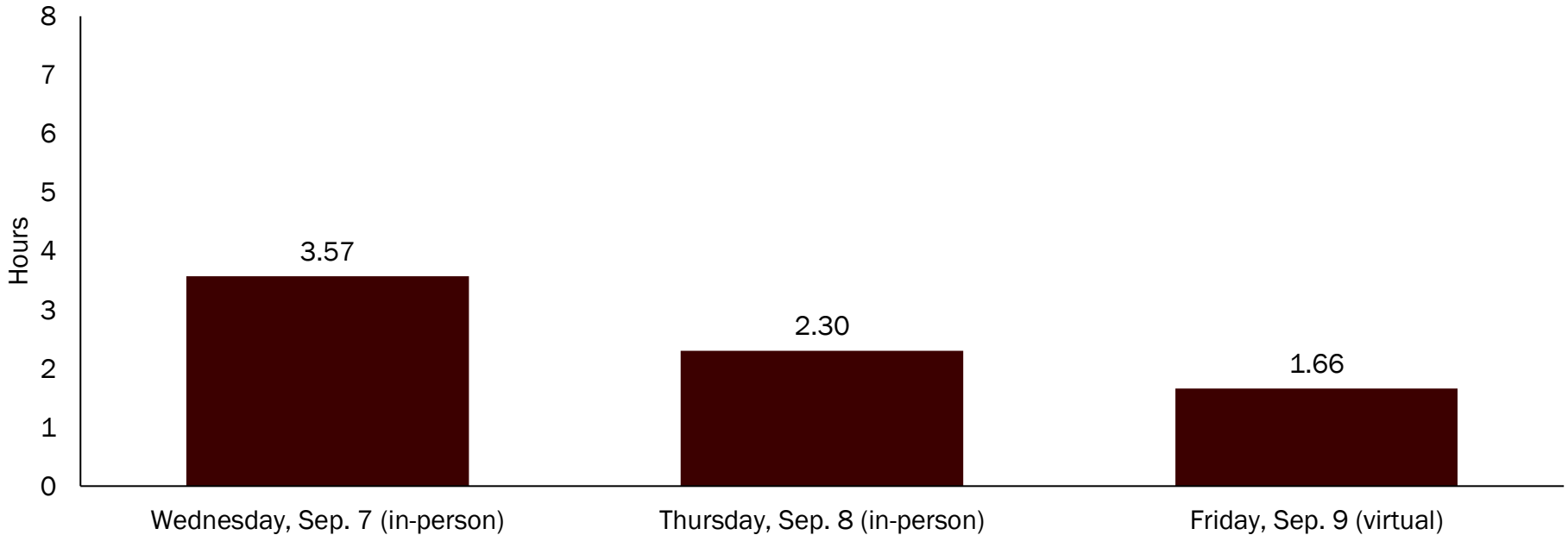
Asked to students who attended the virtual Career Fair
Responses: 447

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



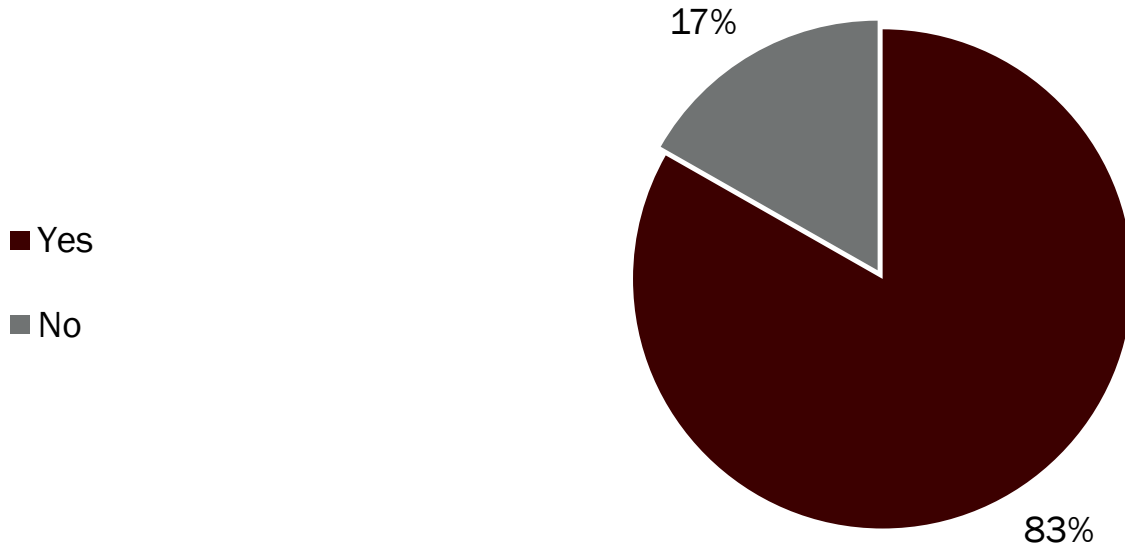
Asked to students who attended the Career Fair
Responses: 1927

Please indicate the total number of hours you spent at each day of the Career Fair



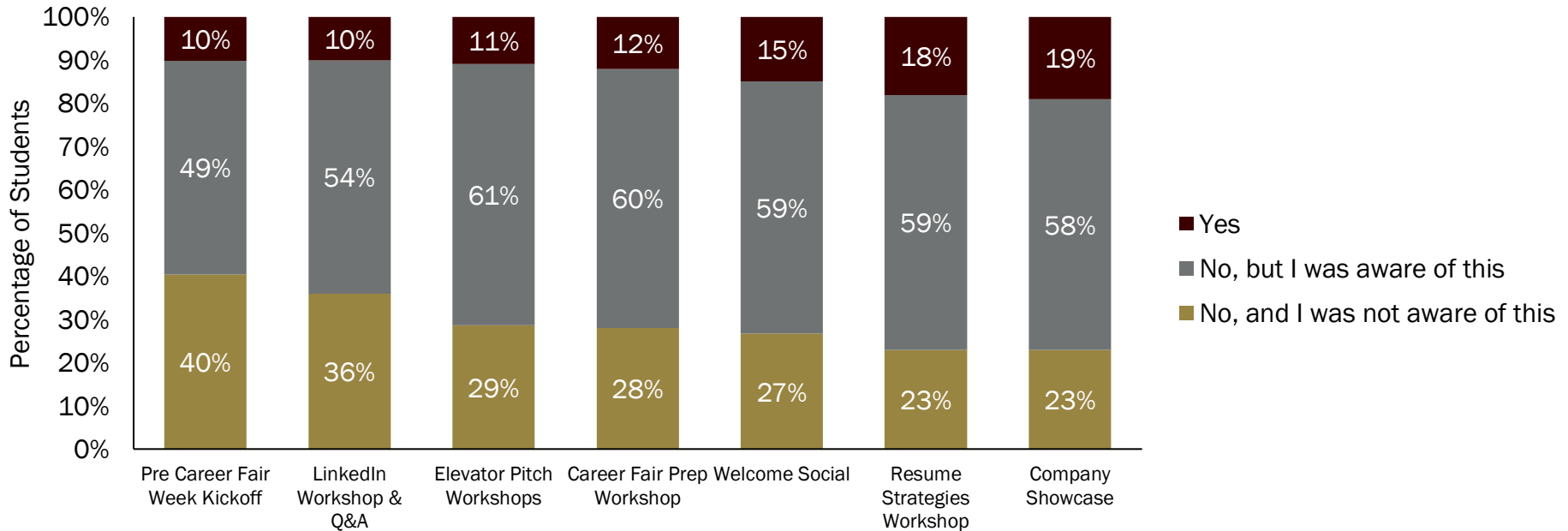
Asked to students who attended the Career Fair
Responses: 1927

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: 1927

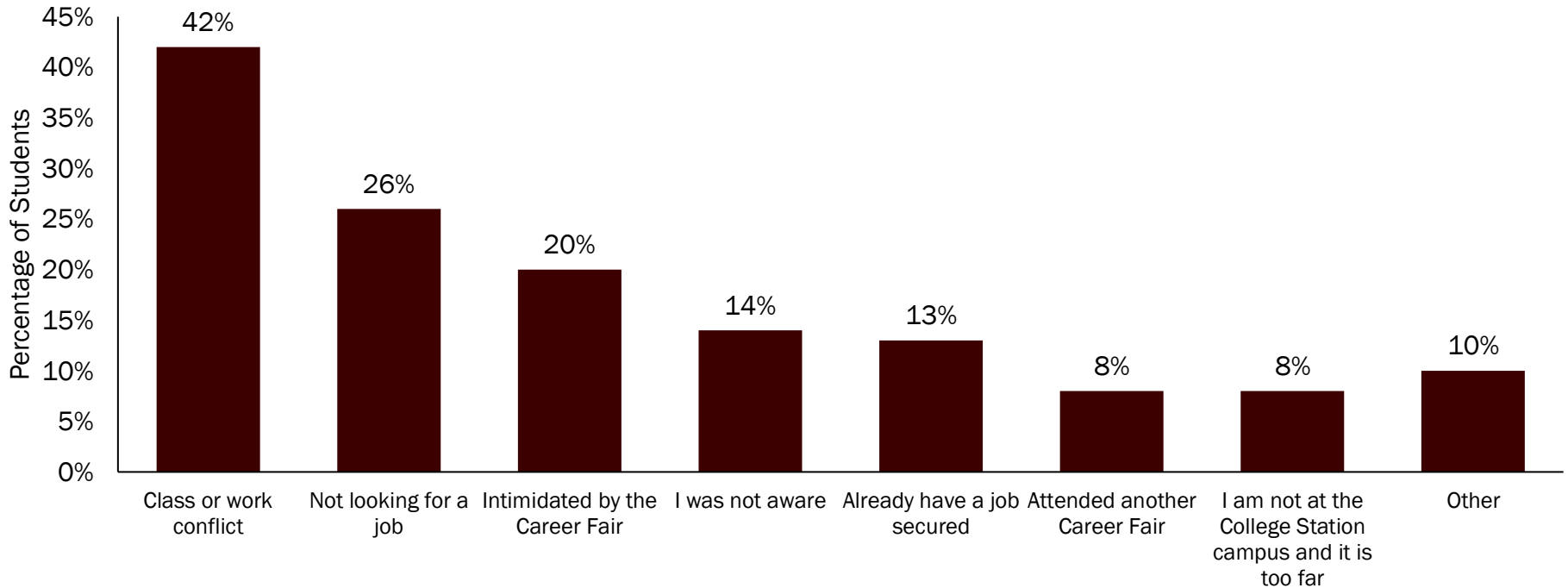
Did you attend the following Fall 2022 SEC Pre-Career Fair Events?



Asked to students who did not attend the Career Fair
Responses: 1809



Why did you not attend the Career Fair?



Asked to students who did not attend the Career Fair
Responses: 1809



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

Did not feel well prepared

- “I didn't feel knowledgeable about or have enough background in my major to feel like I would've had any success at the career fair. ”

Companies present did not match field of study/ graduate classification

- “There were a limited number of biomedical engineering companies.”
- “Most companies are geared towards undergraduates and US citizens.”

Miscommunication

- “I thought that the fair was for upperclassmen, not freshmen.”

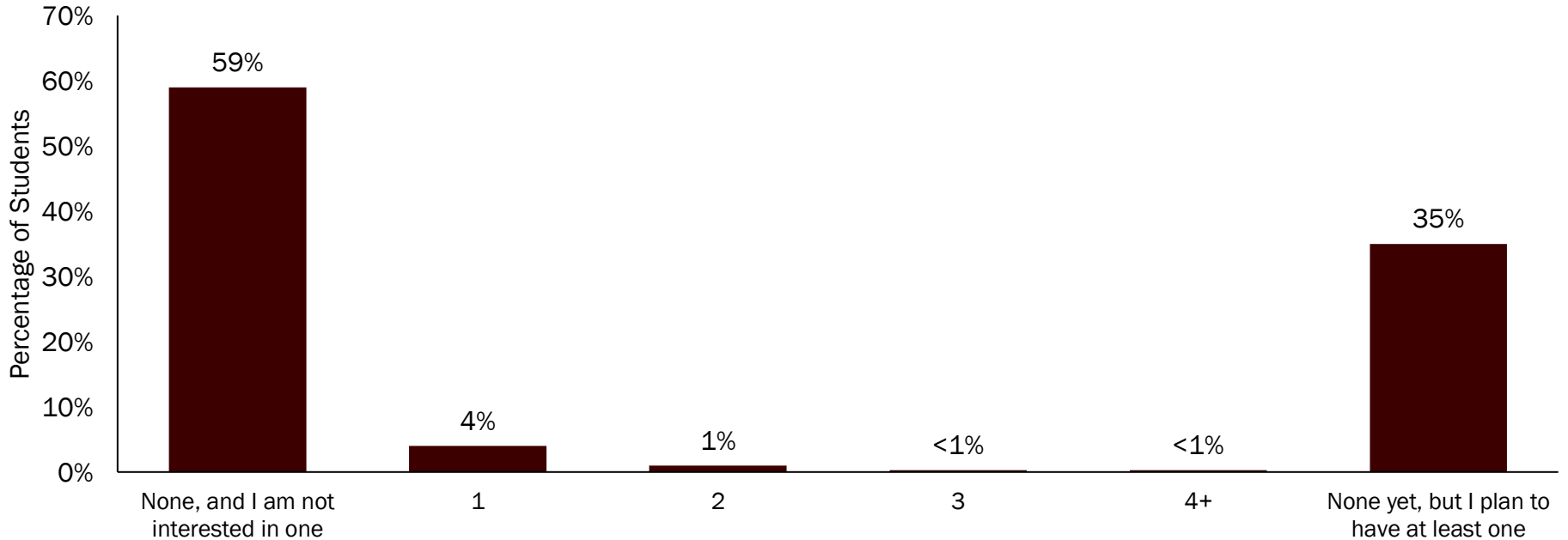
International Experiences Questions

Asked to all students



Responses: 3736

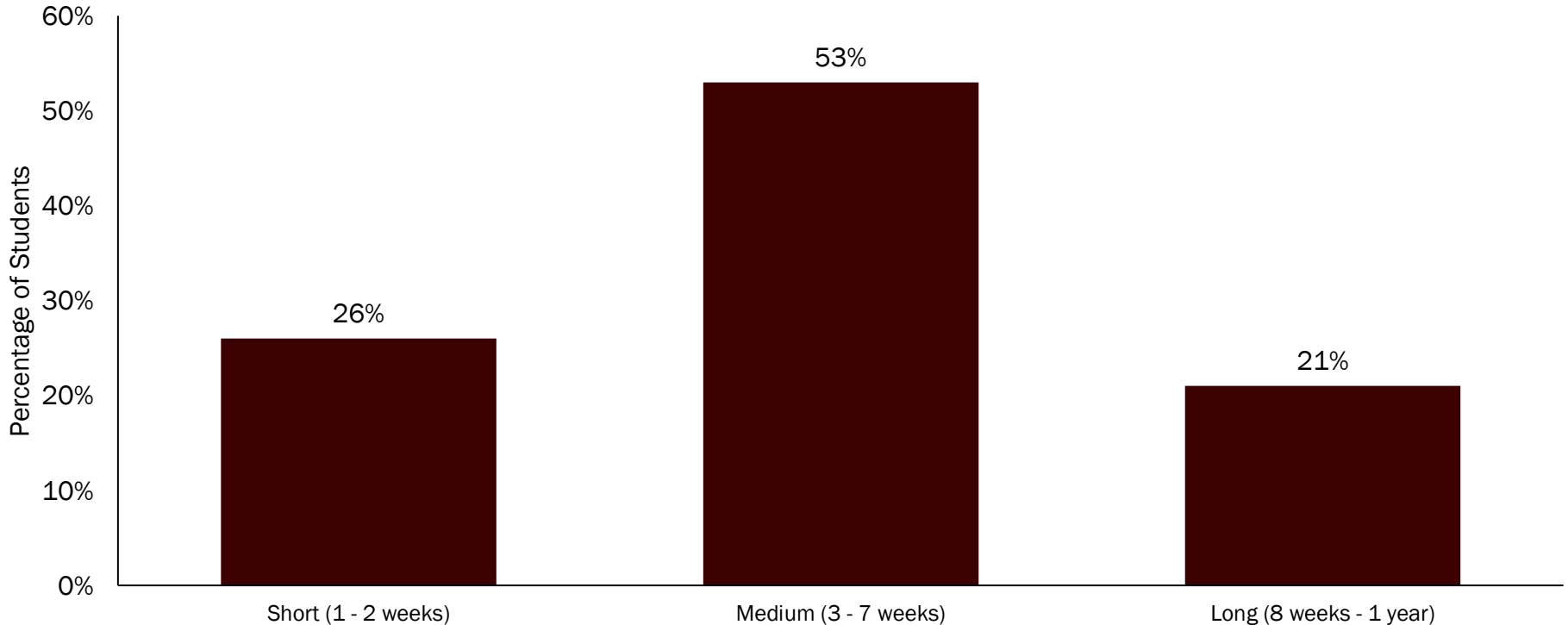
How many learning experiences have you had outside the U.S. led by the Halliburton Engineering Global Program?



Asked to students who completed at least 1 experience abroad
Responses: 201



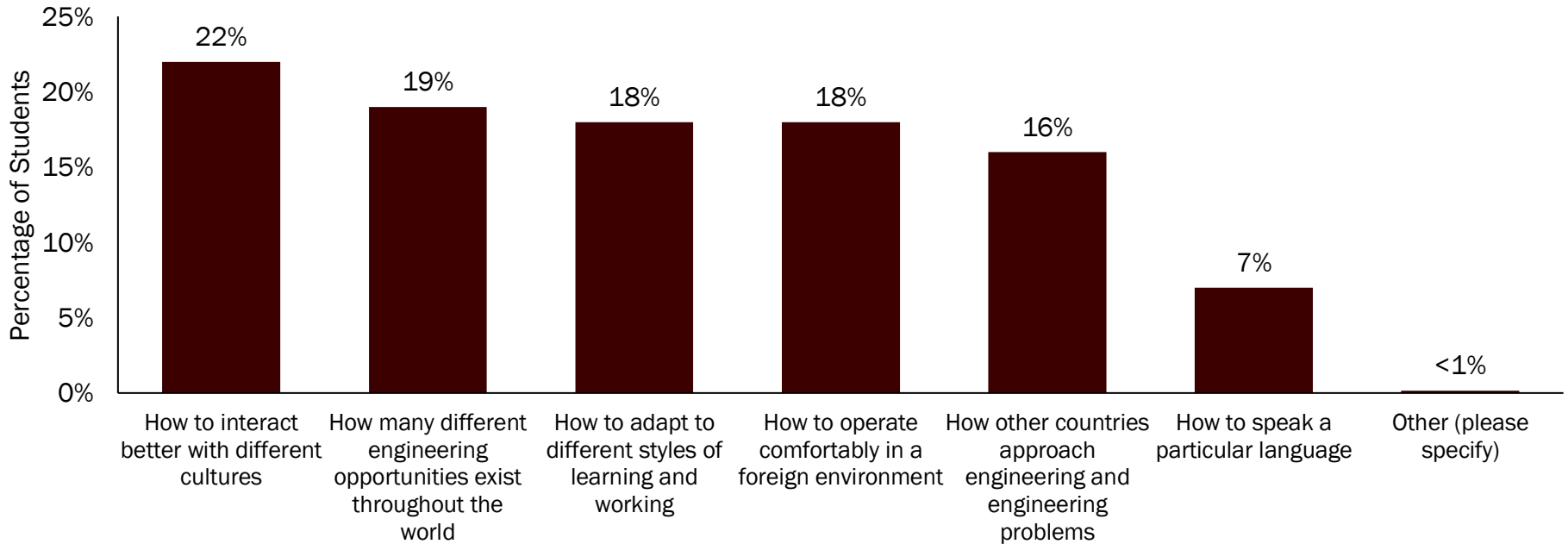
What was the average length of your learning experience(s) abroad?



Asked to students who completed at least 1 experience abroad
Responses: 625



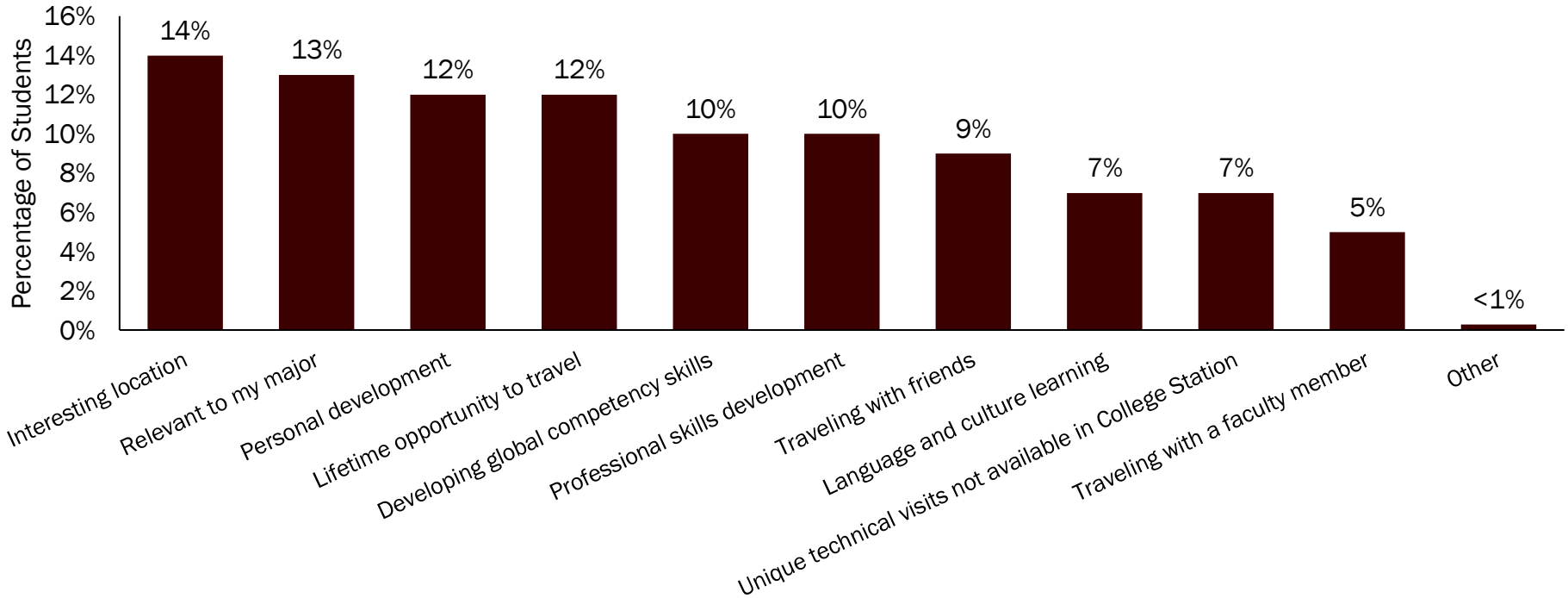
What did you learn during your international learning experience and how will it make you a better engineer? (select all that apply)



Asked to students who completed at least 1 experience abroad
Responses: 870



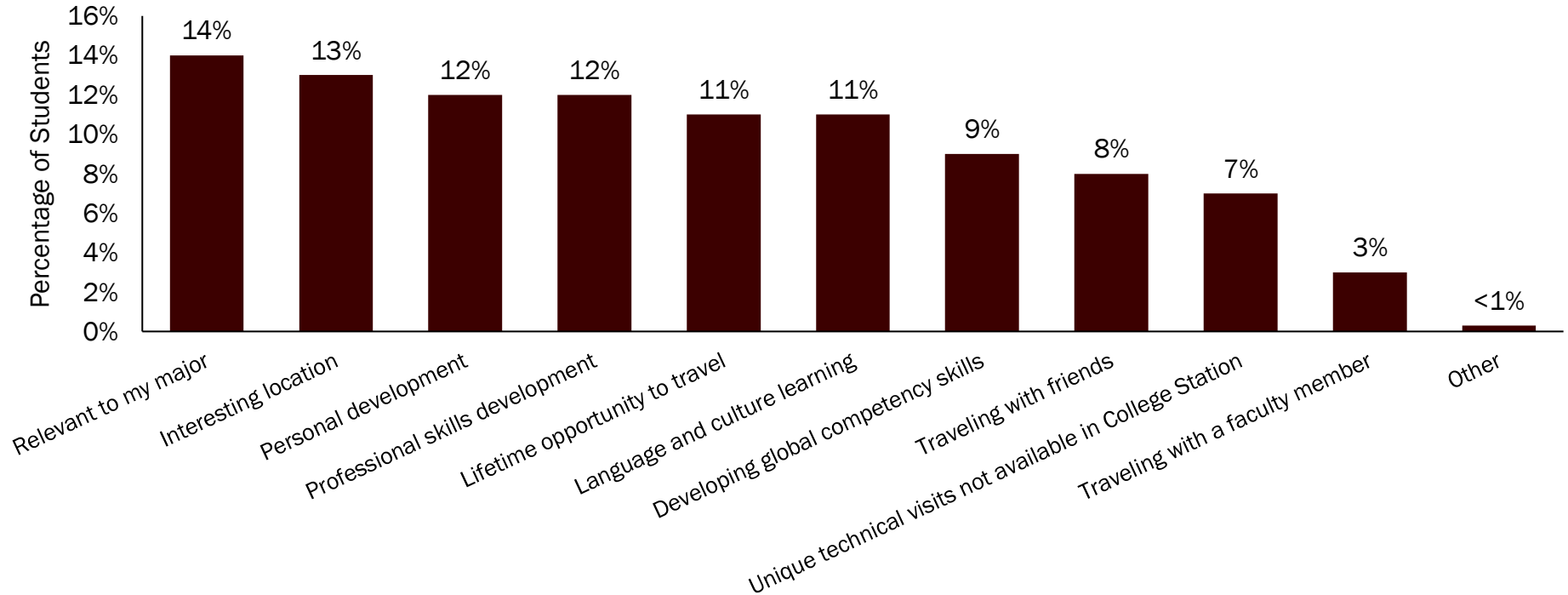
Why did you choose to participate in international learning experience(s)? (select all that apply)



Asked to students who plan to have 1 international experience
Responses: 7652



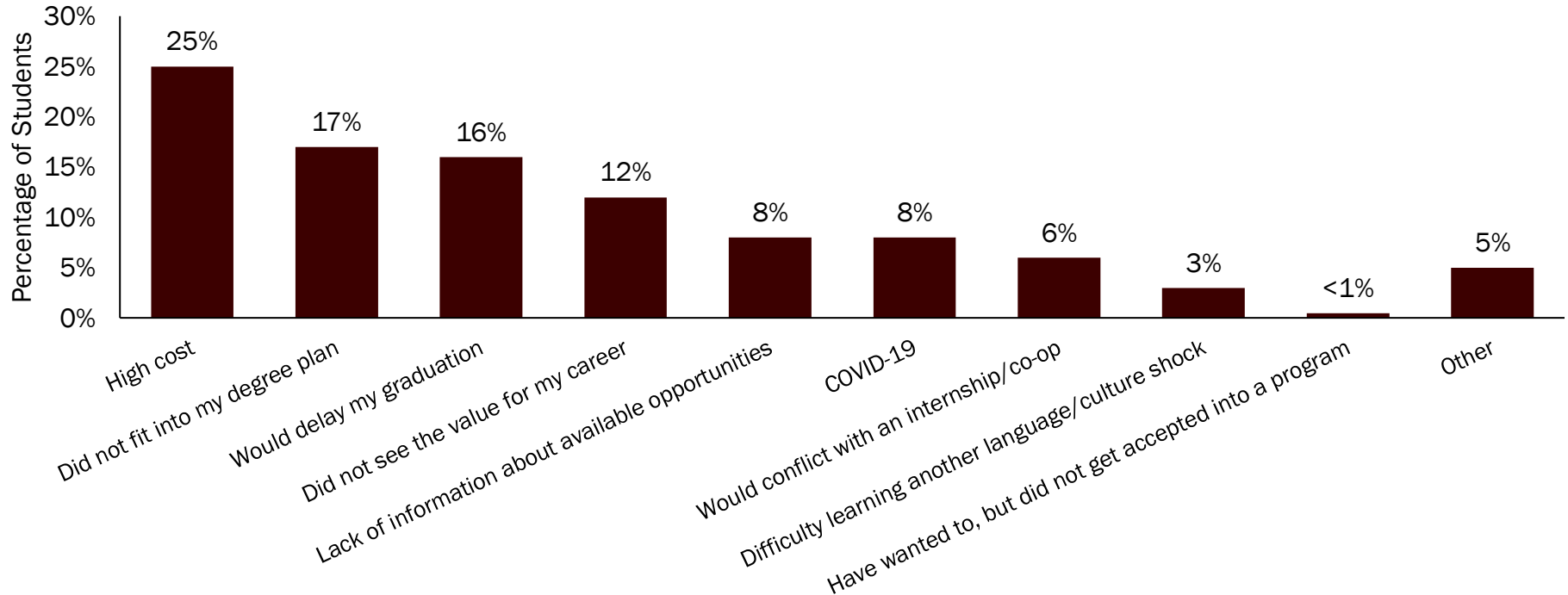
What aspects of an international learning experience would make you want to participate in it? (select all that apply)



Asked to students who did not have an international experience
Responses: 4577



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: 238



ENGINEERING
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Why did you choose not to participate in international learning experience(s)? – *Other (please specify)*

Complications with Travel Documentation

- “I am undocumented and cannot travel outside of the country.”
- “VISA issue. It takes a lot of time to get a new VISA to Re-enter US after international program.”

Lives abroad or has already spent extended time abroad

- “I have already studied abroad in 7+ different countries with different programs, or through conferences, workshops and seminars.”
- “I am from Germany but not considered an international student so it is enough for me to study in the US since this is my international learning experience.”

Mental Health Questions

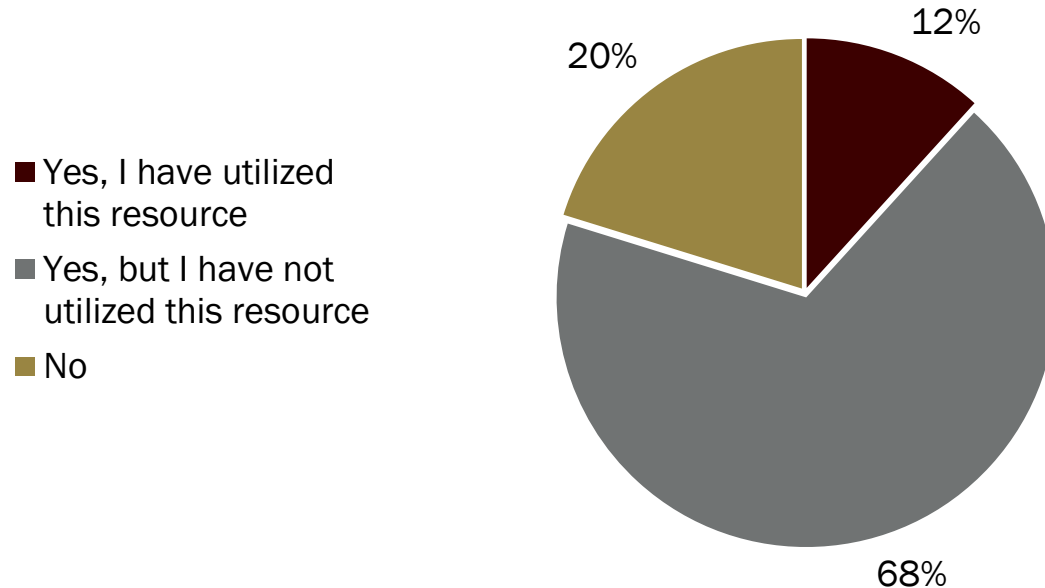
Asked to all students



Responses: 3736

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

(<https://engineering.tamu.edu/student-life/student-counseling-service-in-zachry.html>)





Responses: 846

What aspects of the CAPS resource in the College of Engineering would influence you to either utilize or avoid them? (*open ended*)

Availability

- “CAPS being **limited to 10 sessions** per academic year has made me NOT utilize the resource this academic year (used it last year). I wish it would be 10 per semester.”
- “The appointments were **2 months away** last time I checked, very unfortunate.”
- “Lack of **in person sessions.**”

Cost

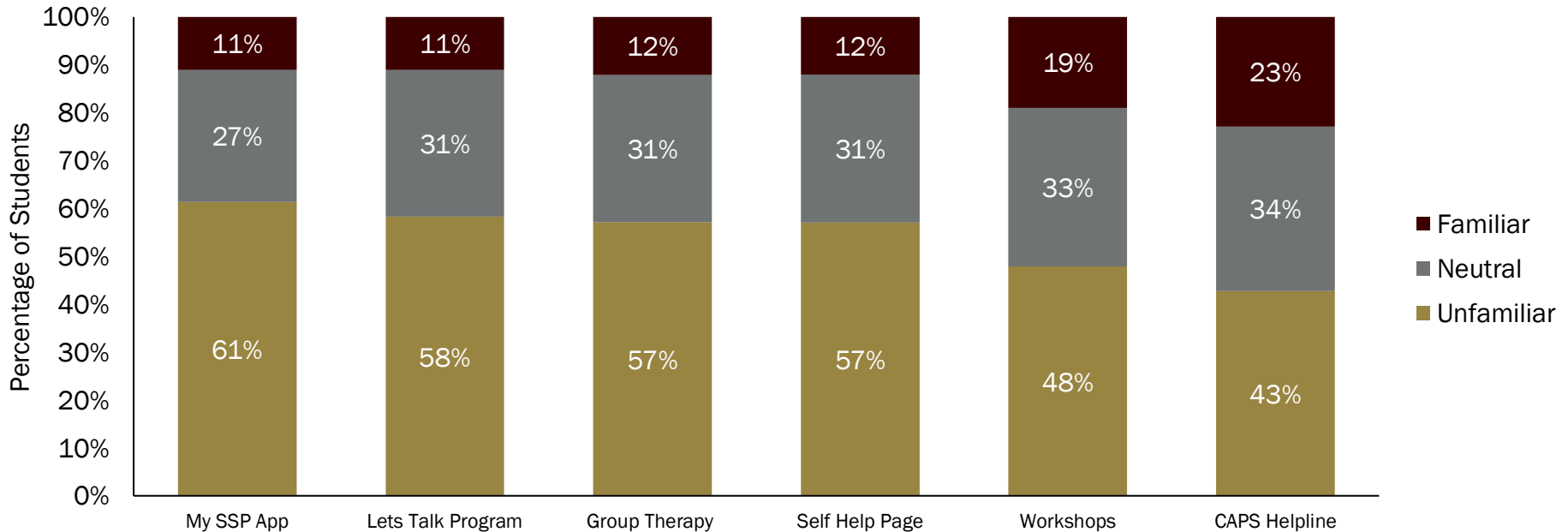
- “**No additional cost** and the **virtual availability** makes them super accessible to PhD students.”
- “It was game changing for me this semester... I loved that it was **free of charge**, that was really the determining factor in whether or not I could go.”

Mission

- “Having **mandatory workshops** for first year students in the Academy would help us familiarize with the service provided.”
- “I heard that CAPS is more for how to **handle academics instead of mental health.**”
- “**Group therapy** is accessible, but not always what is desired.”

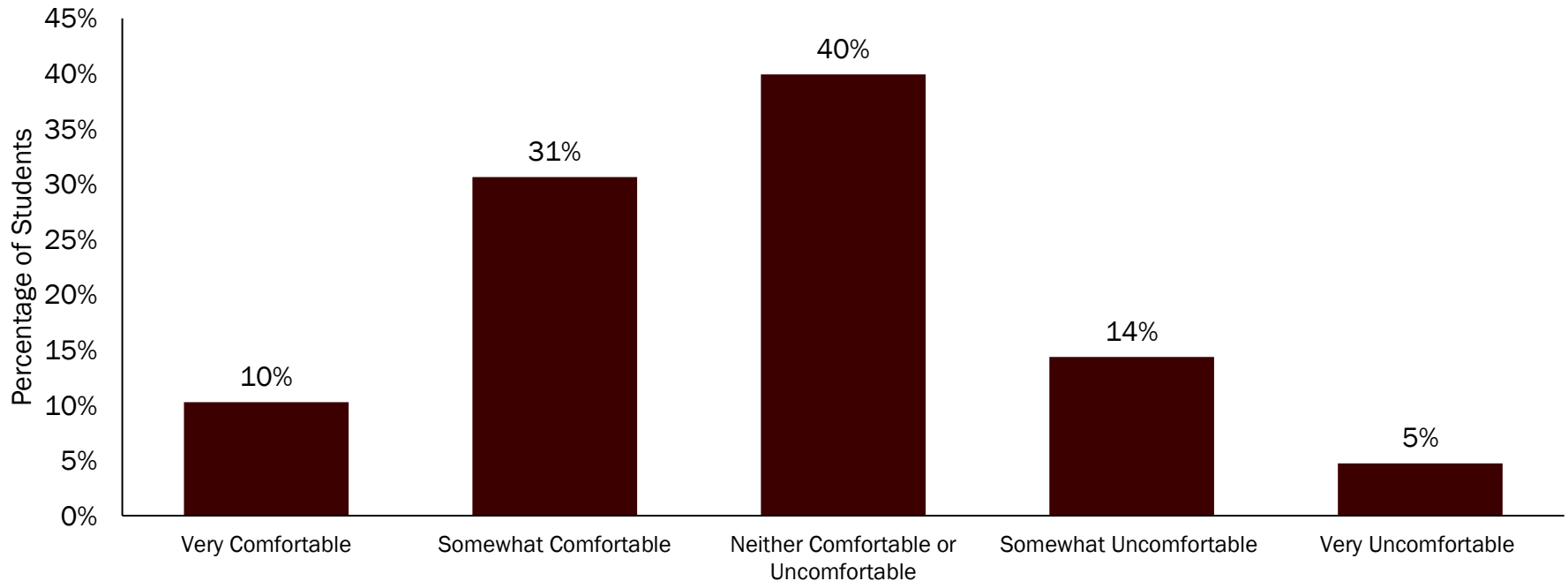
Responses: 3736

How familiar are you with the following CAPS resources, besides 1-on-1 counseling?



Asked to students who has not utilized ZACH CAPS
Responses: 3300

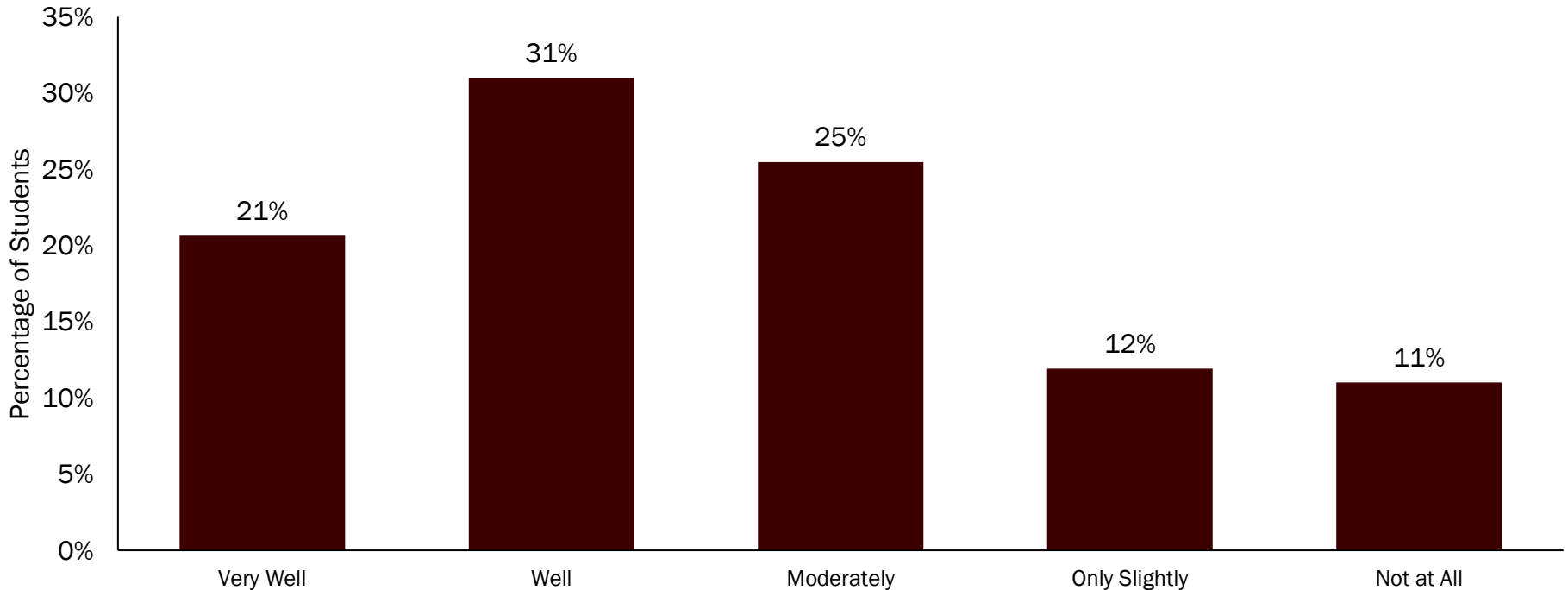
How comfortable would you feel using the CAPS resource in the College of Engineering?



Asked to students who have used the CAPS resource
Responses: 436



How well did CAPS meet your mental health needs?





Responses: 409

Please share any feedback or suggestions you may have for the College of Engineering in regards to student mental health awareness and the CAPS resource. (*open ended*)

Increased visibility and understanding

- “I wish that it was something that **more students did and talked about** so that I would have known about this.”
- “**More tabling events** - be seen more for ppl who would really love to talk but are shy.”
- “Perhaps have **signage** outside the CAPS office. I am unsure of where it is in Zachry.”

Fear behind utilization

- “I don't want my college to **report mental health issues** to insurance providers, future employers, or family members.”
- “I feel that some students may be **paranoid** when using such resources. For instance, I would **not feel comfortable** discussing private information over a zoom conference or phone call.”
- “There is the **cultural stigma**, there is a **lack of time** due to school, there is the **fear** of creating a record, there is the belief that it isn't effective.”

Availability of resources

- “The one time I tried it, I the **next available appointment was a week following**. Also, CAPS should be able to provide excuse(s) for certain circumstances inhibiting academic accountability.”
- “They **don't offer appointments for CAPS after 5pm** which can be difficult for student workers (like me).”

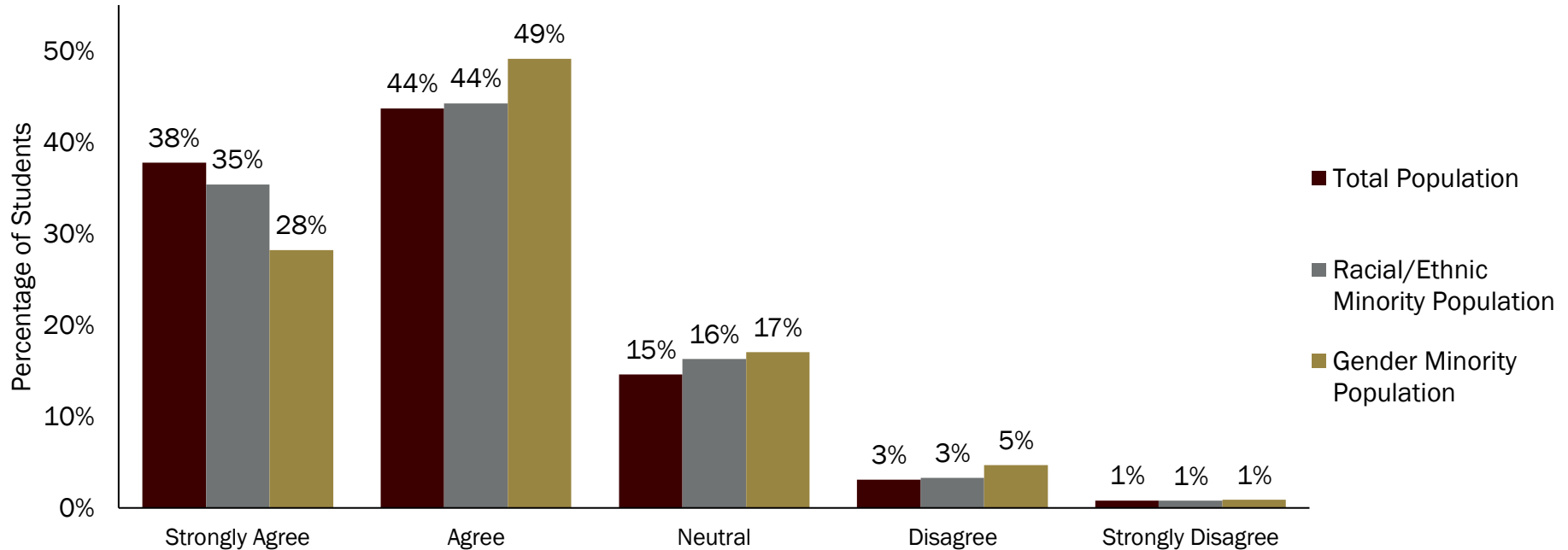
Diversity & Inclusion Questions

Asked to all students



Responses: 3736

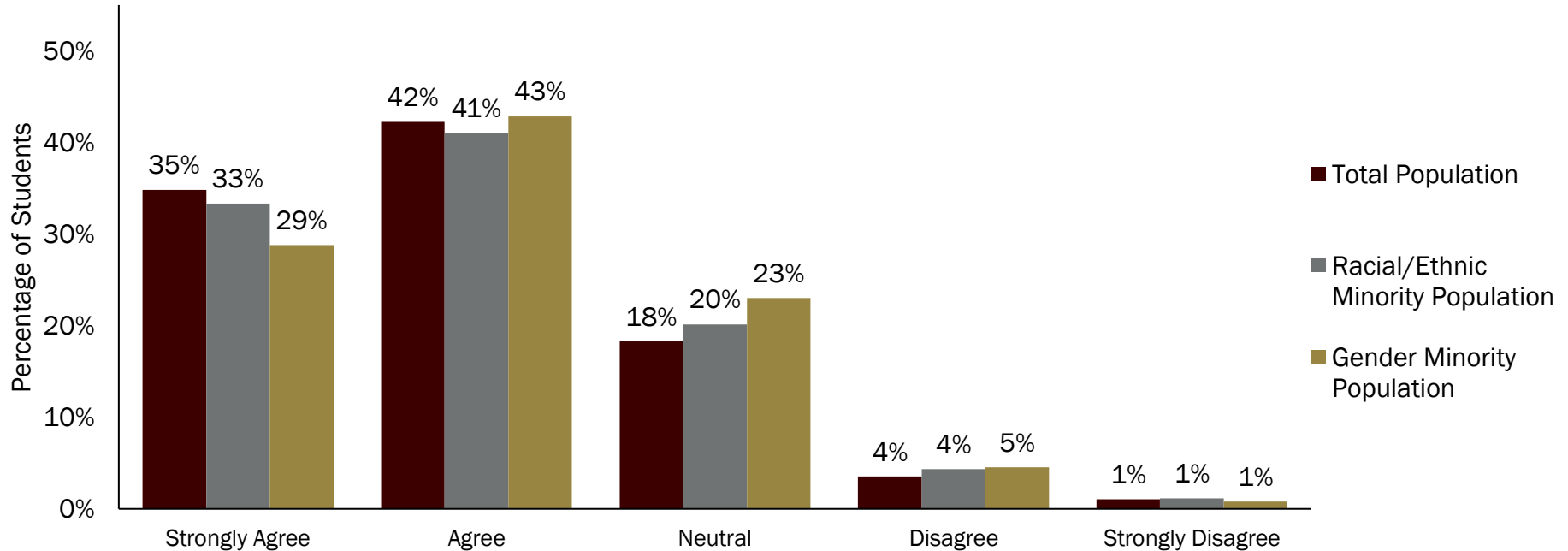
Please rate your agreement with the following statements. – I feel welcome in the College of Engineering.





Responses: 3736

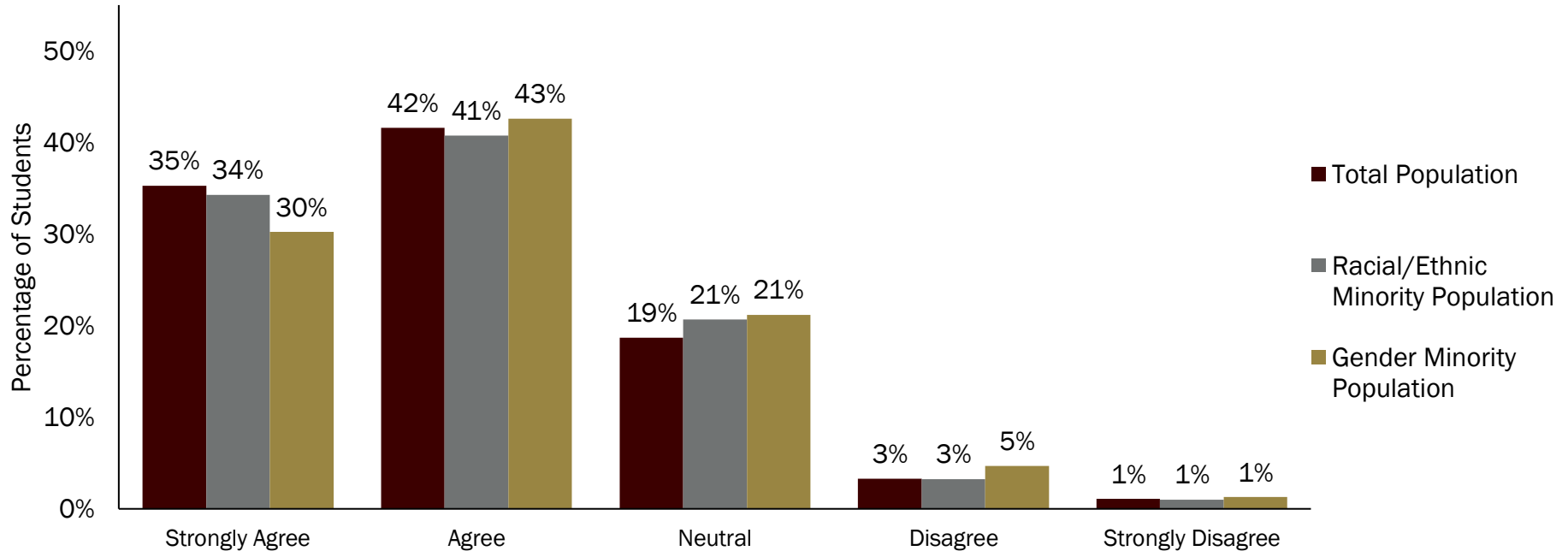
Please rate your agreement with the following statements. – The College of Engineering promotes a diverse engineering student body.





Responses: 3736

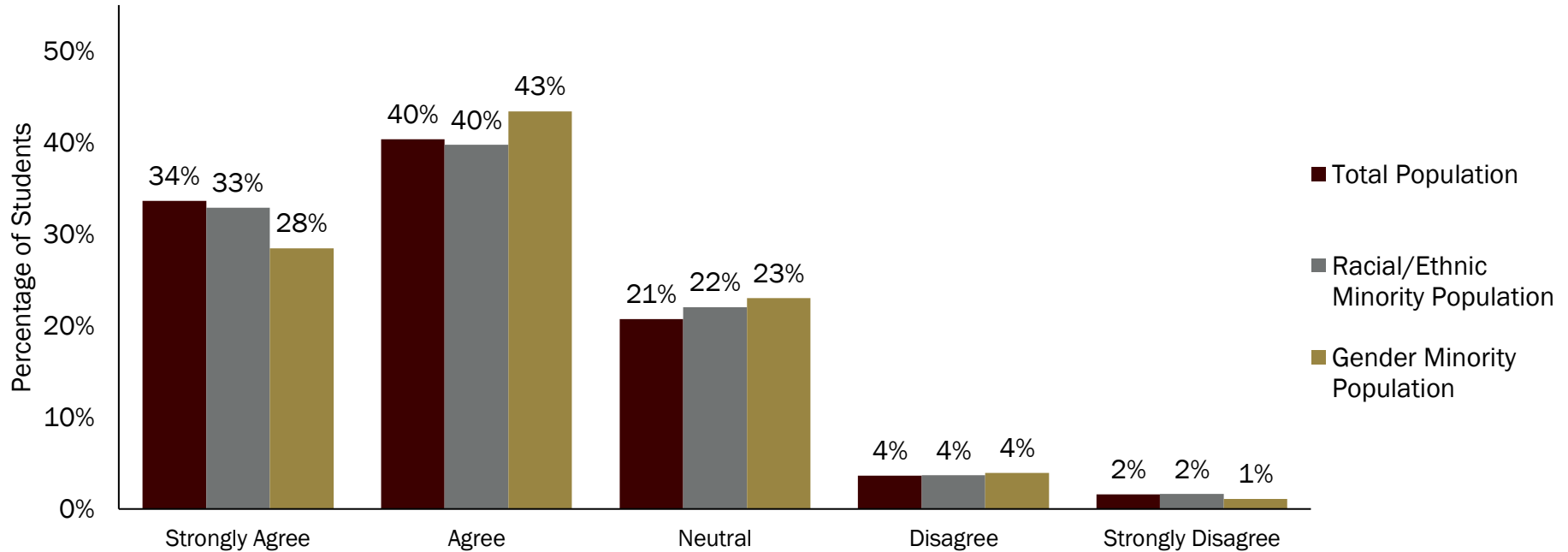
Please rate your agreement with the following statements. – The College of Engineering values diversity by having a diverse engineering faculty.





Responses: 3736

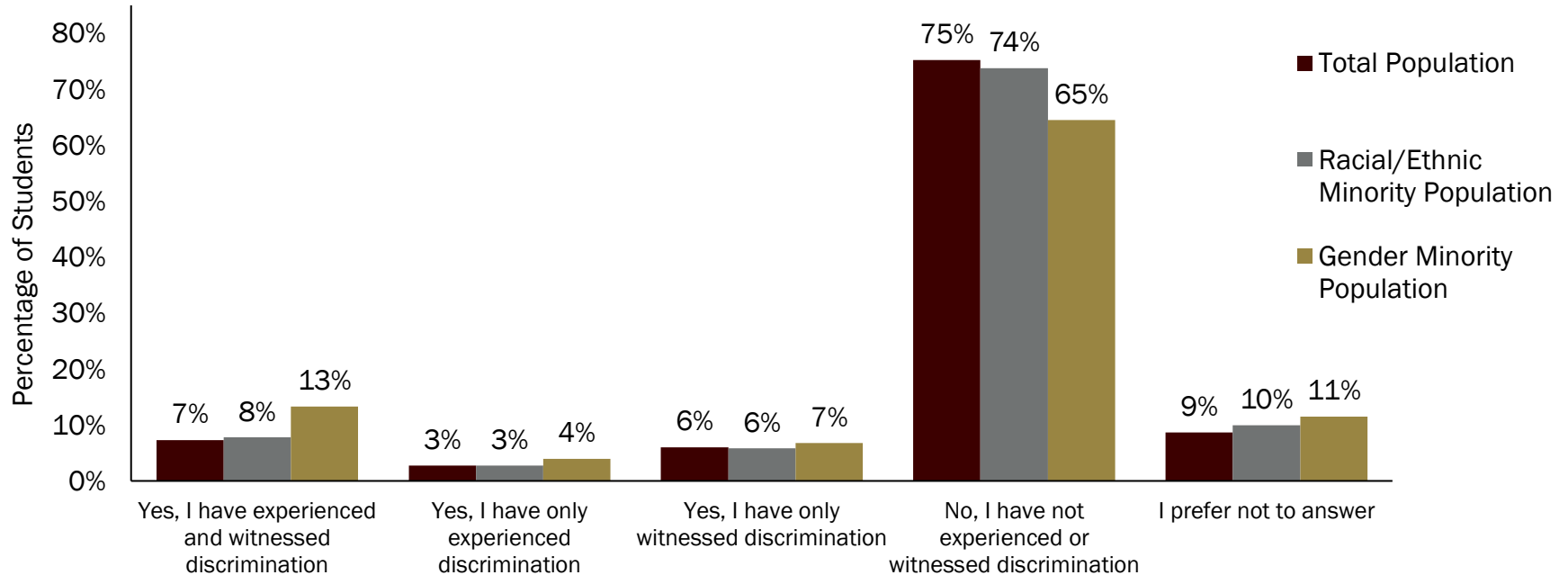
Please rate your agreement with the following statements. – The College of Engineering values diversity of thought.





Responses: 3736

Have you experienced or witnessed discrimination within the College of Engineering?

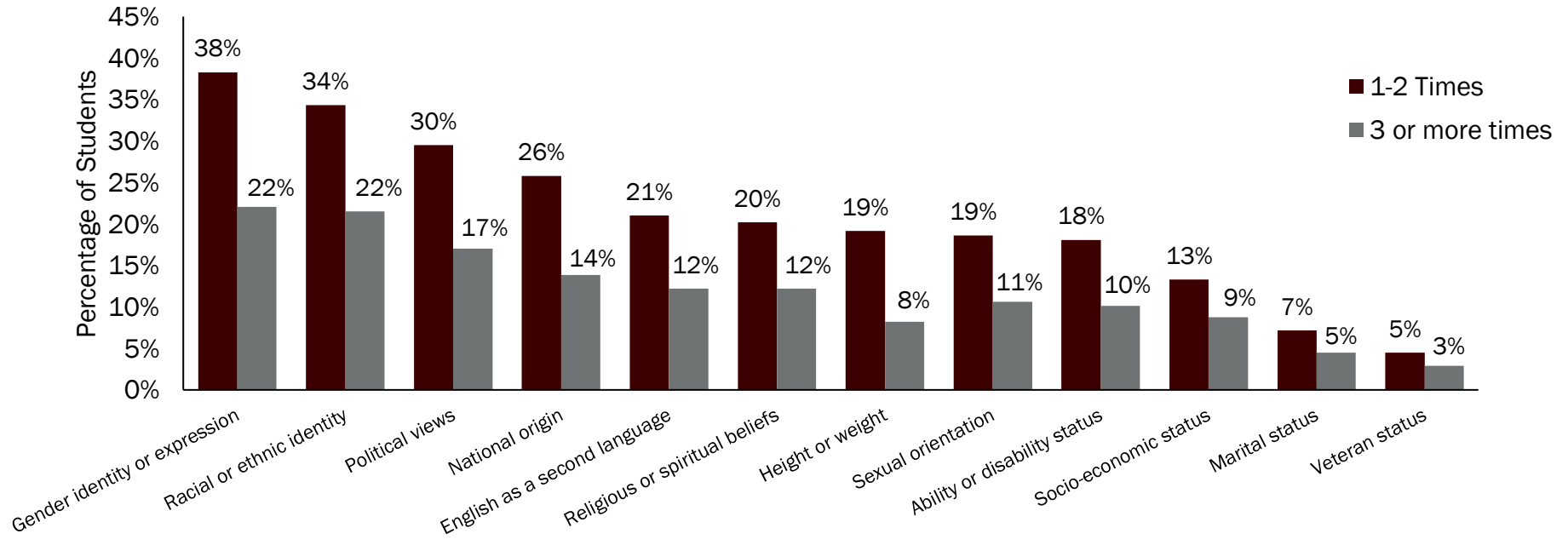


Asked to students who have experienced discrimination

Responses: 376



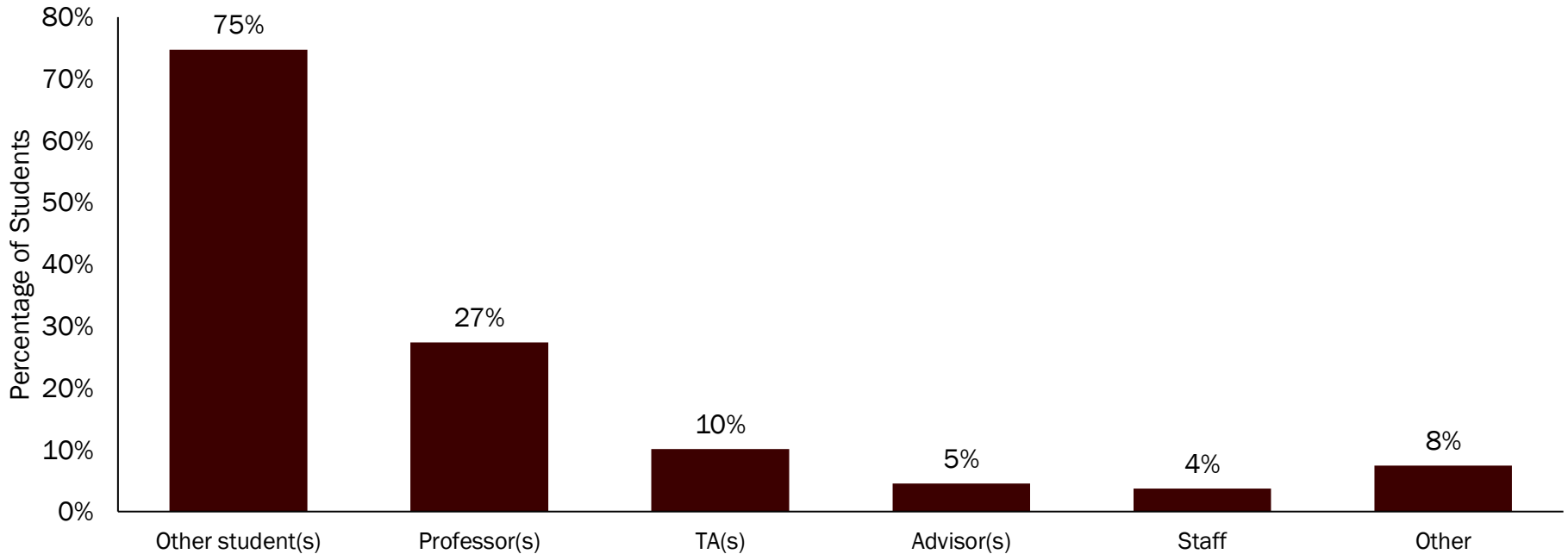
Over the past year, how often have you experienced discriminatory events within the College of Engineering because of your... (select all that apply)



Asked to students who have experienced discrimination
Responses: 376



Which of the following groups have discriminated against you?
(select all that apply)



Asked to students who have experienced discrimination
Responses: 142



What type of discrimination have you experienced? (microaggressions, biased statements, etc.) (*open ended*)

Microaggressions & biased statements

- “Microaggressions related to my race and socioeconomic status.”

Gender discrimination against females

- “Consistently talked over during group work by male students.”
- “Assumptions about my intelligence compared to male students.”

Discrimination against LGBTQ+ individuals

- “My classmates make a lot of homophobic jokes which are offensive to me.”

Discrimination against disabled individuals

- “Professors not honoring my accommodations and finding ways to work around them. Having my accommodations discovered by other students due to the professor failing to ensure my privacy...”

Asked to students who have experienced discrimination
Responses: 121



How can the College of Engineering take steps to prevent instances of discrimination from happening in the future? (*open ended*)

Improve access to education about cultural diversity

- “Education on recognizing or acknowledging certain areas that an individual may not be aware is offensive.”
- “Have cultural and diversity awareness courses and workshops.”
- “Bystander programs like Green Dot.”

Resource education and organized events

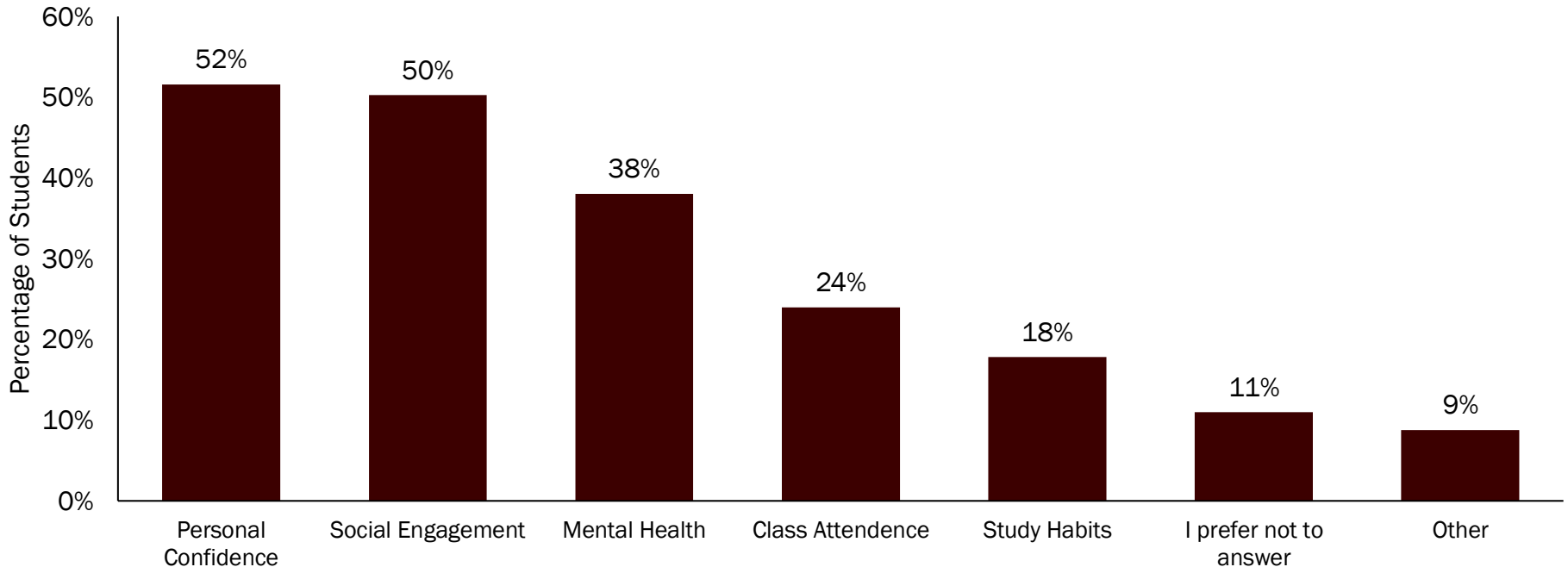
- “Educate students as freshman where they can report these incidents.”
- “... there are interesting things that could be introduced to promote diversity; Example is introducing ‘international day.’”

Increase transparency

- “Be open minded when receiving complaints ... work on a warning/education-based system for minor infractions and have a more transparent, firm process for severe ones.”

Asked to students who have experienced discrimination
Responses: 376

In what areas of your life has our experience of discrimination affected you?
(select all that apply)

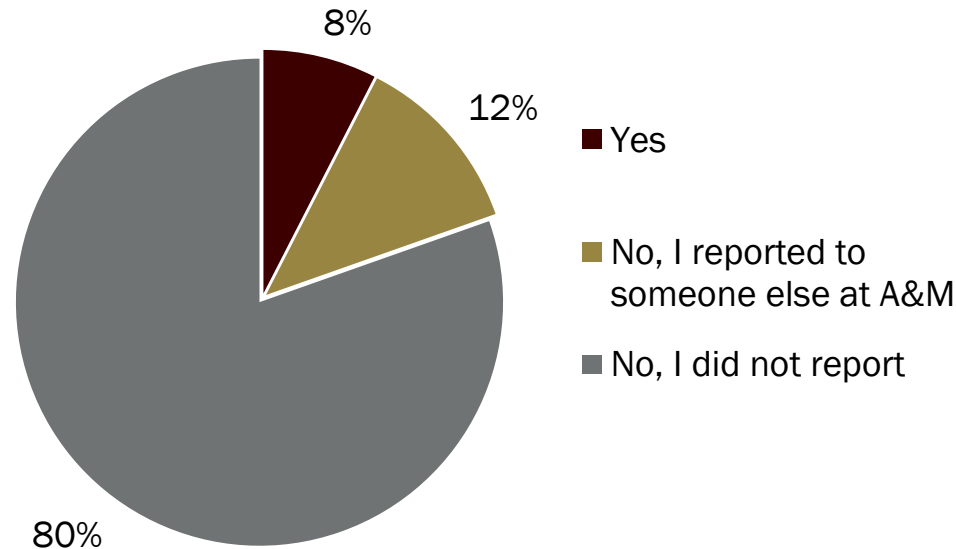


Asked to students who have experienced or witnessed discrimination
Responses: 597



If you experienced or witnessed any discrimination within the College of Engineering, did you report the incident through an official A&M resource?

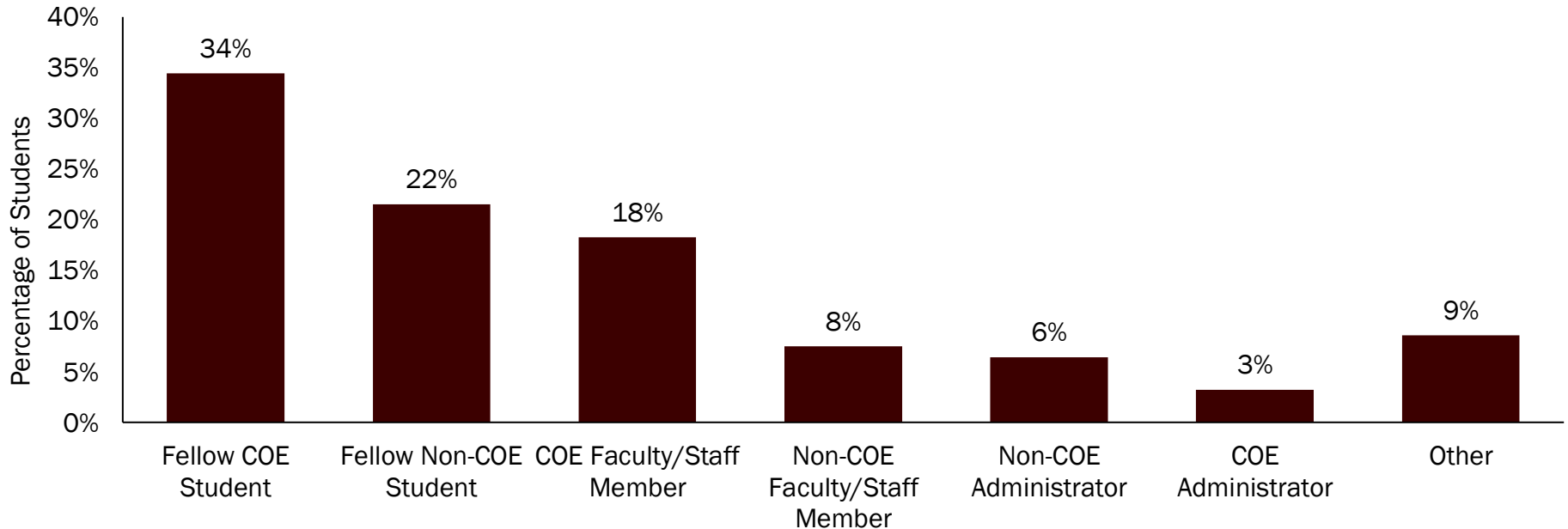
Stop Hate (<https://stophate.tamu.edu/>)
TAMU Title IX (<https://titleix.tamu.edu/>)



Asked to students who reported to 'Someone else at A&M'
Responses: 72

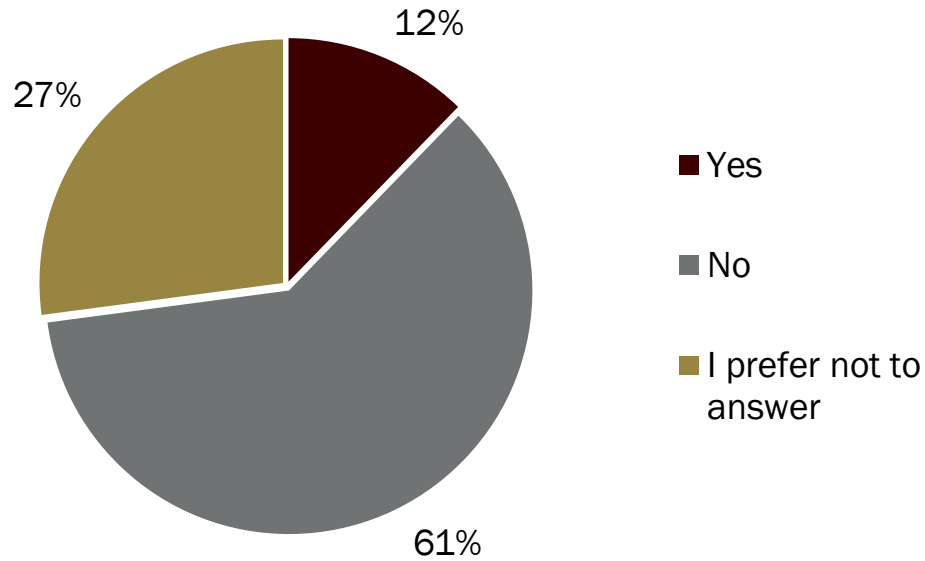


Who did you tell? (select all that apply)



Asked to students who receive disability services
Responses: 155

If you are receiving disability services, have you experienced discrimination from an engineering faculty member because of this?





Responses: 719

If you would like to see more diverse representation in the College of Engineering, how would you like to see this? (*open ended*)

Celebrate cultural diversity

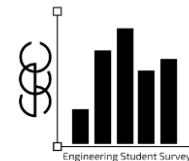
- “If there were a cultural showcase for different cultures once a semester, I think that would be a great way to highlight and celebrate diversity within the COE.”

No changes are necessary/ Doing Good

- “I feel that in the College of Engineering, there is already a very diverse representation. I am not sure how more could be implemented.”
- “... The College of Engineering is doing a good job with diverse representation.”

More representation among faculty, services and events

- “I would like to see more women in engineering services, faculty, and scholarships.”
- “I would like to see more LGBTQ+ support within the COE. This could include hosting workshops or hearing from the LGBTQ+ community about their experiences within industry and how our students can promote acceptance within the workplace.”

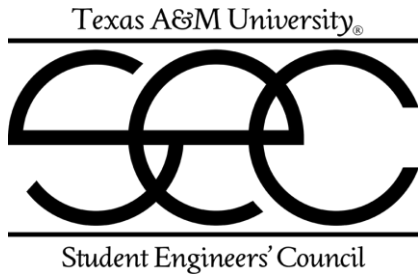


Co-Chairs

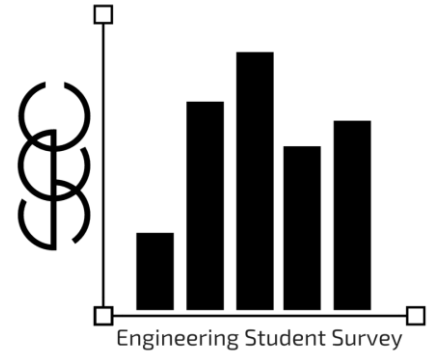
Andrew Paré	'23
Lulu Whitson	'25

Members

Allison Clarke	'23
Kathryn Jaeckle	'23
Jenna Ruhlman	'23
Margaret McGurran	'23
Nick Dittimore	'23
Trevor Gard	'24
Jake Isakson	'25
Matthew Cupich	'25
Max Chung	'25



ENGINEERING STUDENT SURVEY



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