Texas A&M University
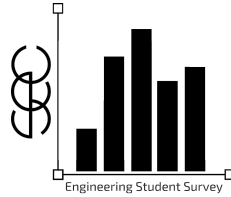**SEC**
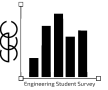**Student Engineers' Council**

FIRST-YEAR ENGINEERING STUDENT SURVEY

Engineering Student Survey

Results Presentation
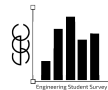
April 24, 2019

Mission

A primary mission of the Student Engineers' Council is to serve as the representative voice for the students within the College of Engineering.

Purpose

This survey exists to embody and communicate the student perspective with the administration of the College of Engineering.


Open-Ended Questions

Questions labeled "Free Response" allowed for open-ended student responses. These responses were read by members of SEC's Legislation committee and sorted into representative categories.

Productive Feedback

This survey features some questions that focus specifically on students' negative feedback. This is intended as helpful, productive information highlighting areas for improvement.
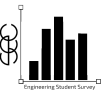
Part I: Entry Survey

2.5-Week Survey Period
October 9 – October 26, 2018

1184 Total Responses
29% of First-Year Student Body

Part II: Exit Survey
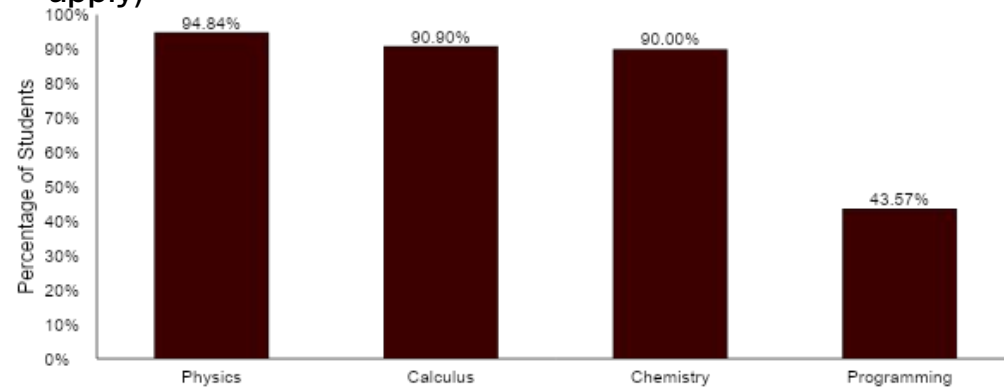
2-Week Survey Period
March 28 – April 12, 2019

936 Total Responses
25% of First-Year Student Body
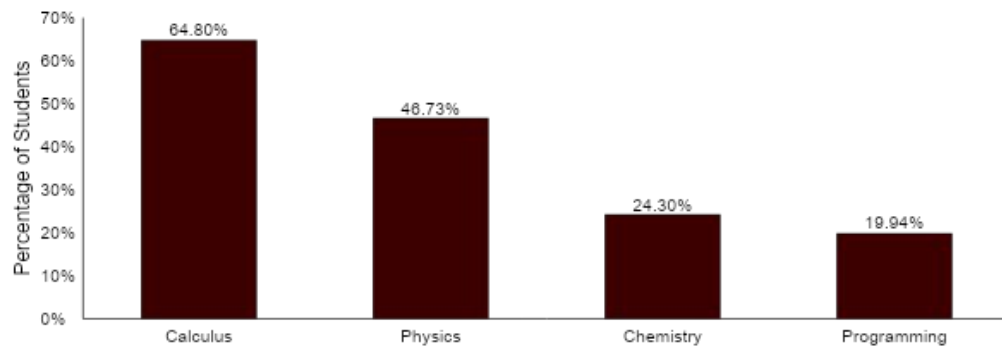
Entry Questions

Appeared on only the Entry Survey

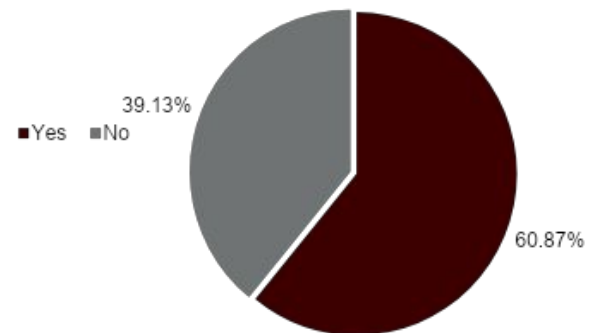## What classes did you take in high school? (select all that apply)

What college classes have/will you accept high school credit for? (select all that apply)

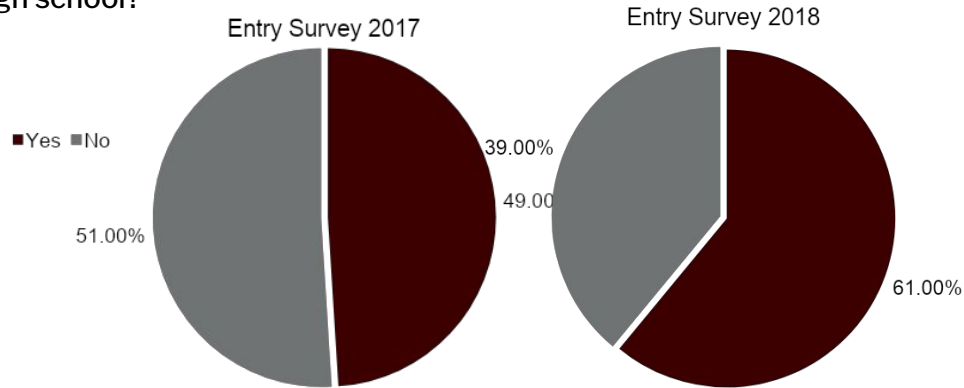## Did you participate in any STEM-related extracurricular activities in high school?

■Yes ■No
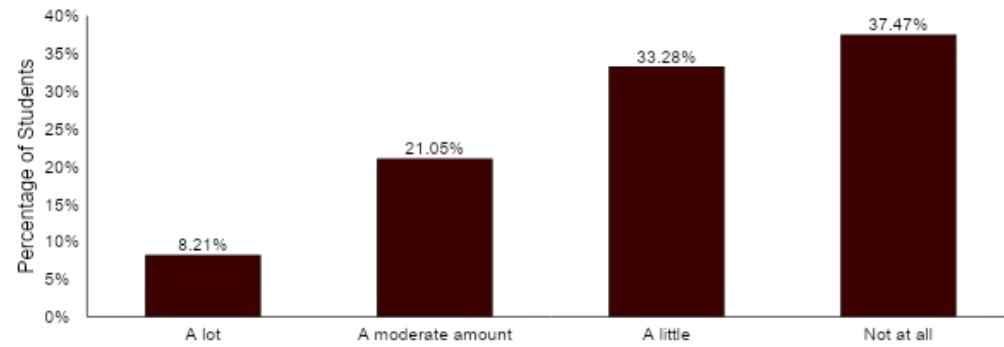
39.13%

60.87%

Comparison with Fall 2017 Entry Survey

ENGINEERING
TEXAS A&M UNIVERSITY

Did you participate in any STEM-related extracurricular activities in high school?

Entry Survey 2017

■Yes ■No

51.00%
39.00%

Entry Survey 2018

49.00
61.00%

Responses: 1145

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How much prior programming experience do you have?

A lot: 8.21%
A moderate amount: 21.05%
A little: 33.28%
Not at all: 37.47%

Percentage of Students

Comparison with Fall 2017 Entry Survey

ENGINEERING
TEXAS A&M UNIVERSITY

How much prior programming experience do you have?

■Fall 2017 ■Fall 2018

A lot: 5.00% / 8.21%
A moderate amount: 15.00% / 21.05%
A little: 28.00% / 33.28%
None at all: 52.00% / 37.47%

Percentage of Students
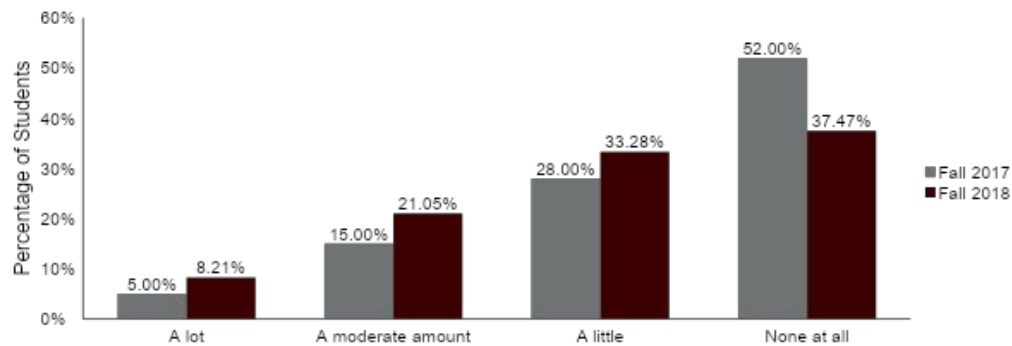
Asked to students with some programming experience
Responses: 716

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How did you gain your programming experience? (check all that apply)

High School Classes: 80.11%
Self-Teaching: 41.47%
High School Extracurriculars: 27.36%
Family Members: 8.46%
Other: 5.64%

Percentage of Students
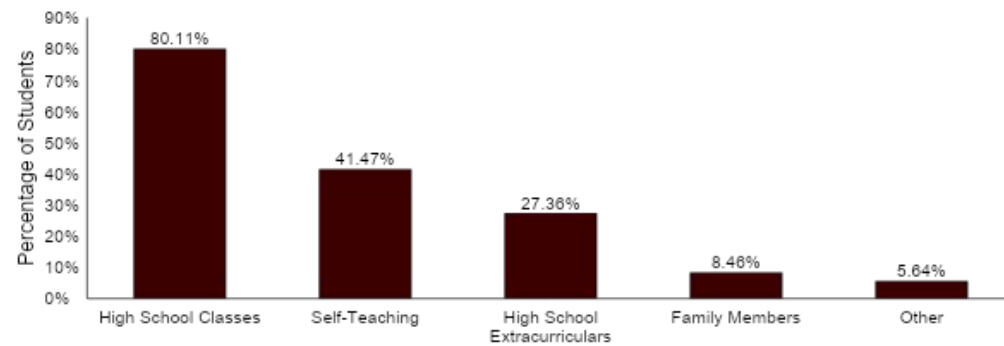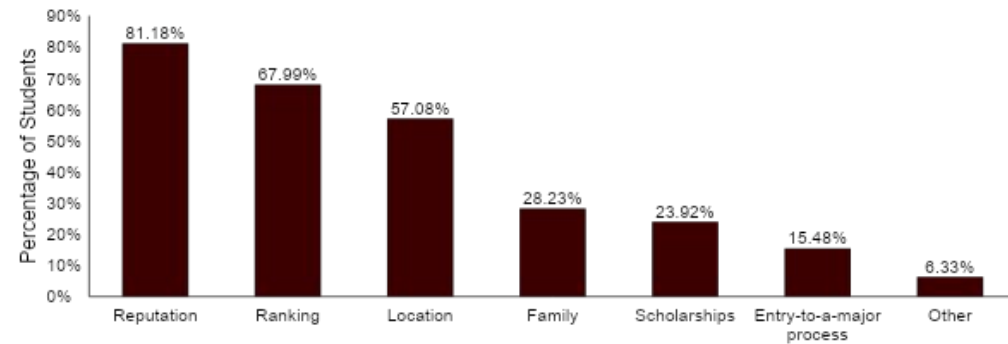
What made you choose Engineering? (select all that apply)
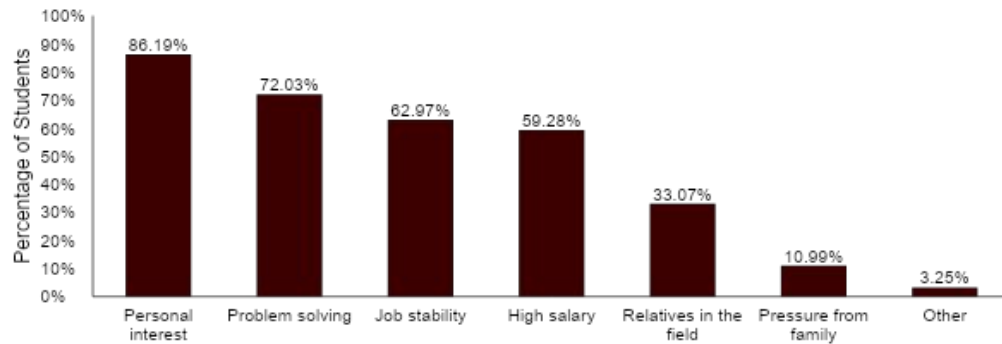
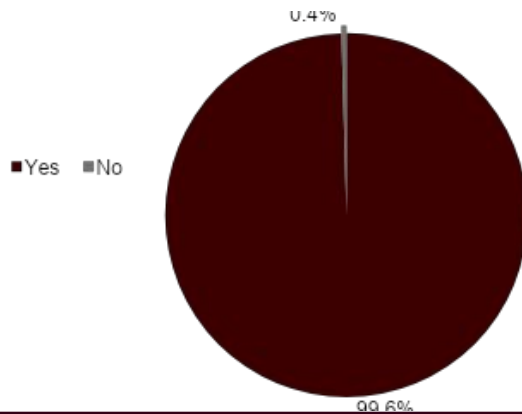## Why did you choose Texas A&M Engineering? (select all that apply)

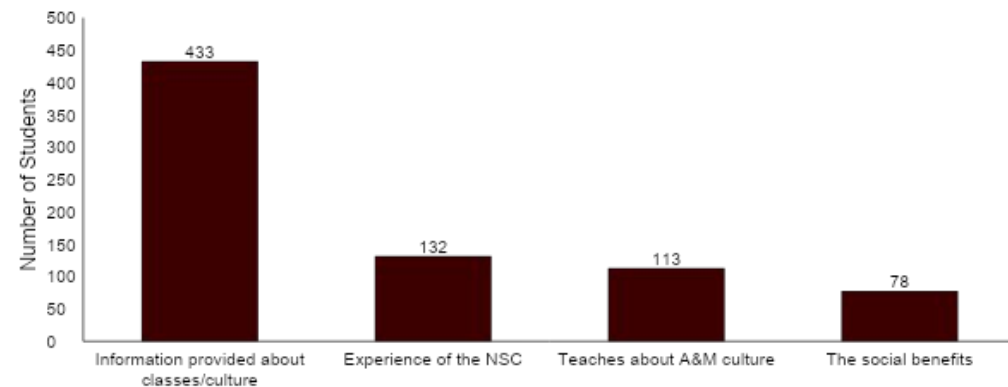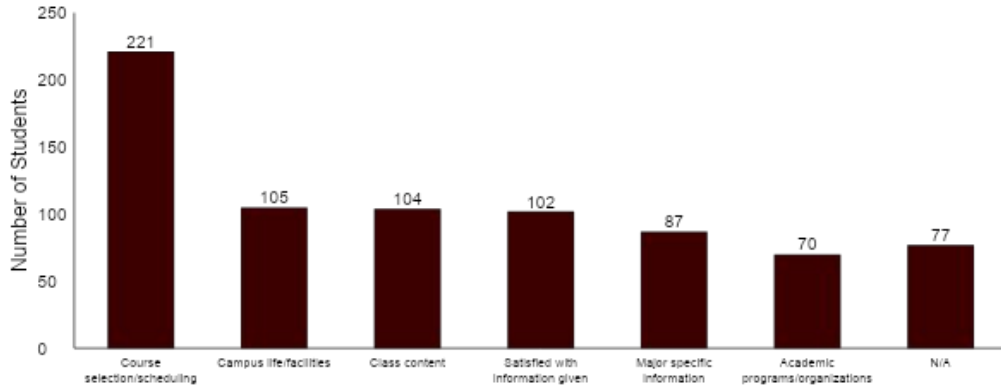## Did you attend the New Student Conference (NSC)?

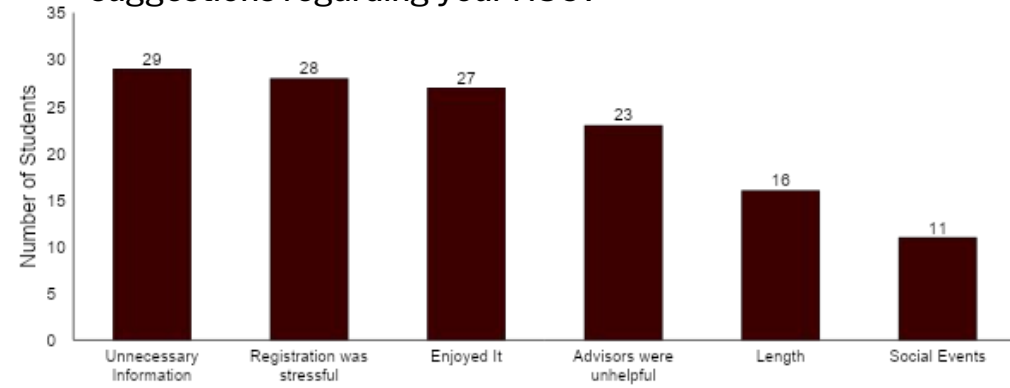## *Open-Ended*: What were the biggest strengths of the NSC? What did you find most helpful?

Responses: 766

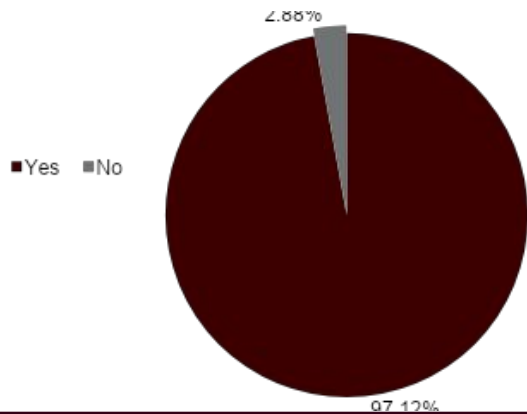*Open-Ended*: What information do you wish had been given during your NSC?

Responses: 134

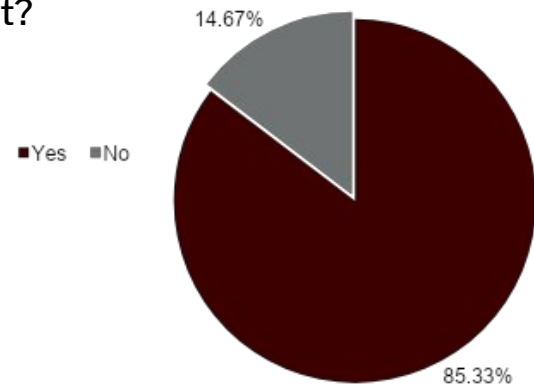*Open-Ended*: Do you have any additional comments or suggestions regarding your NSC?

Responses: 1041

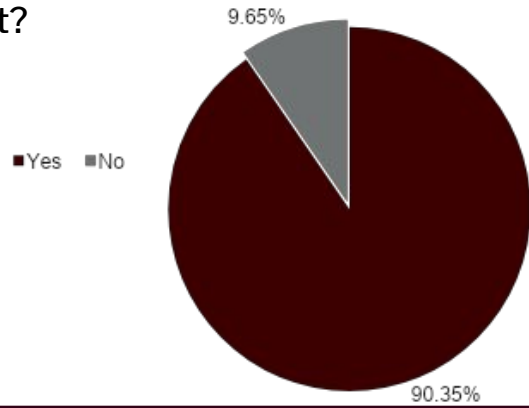Did you take the Math Placement Exam (MPE) at your NSC?

Responses: 995

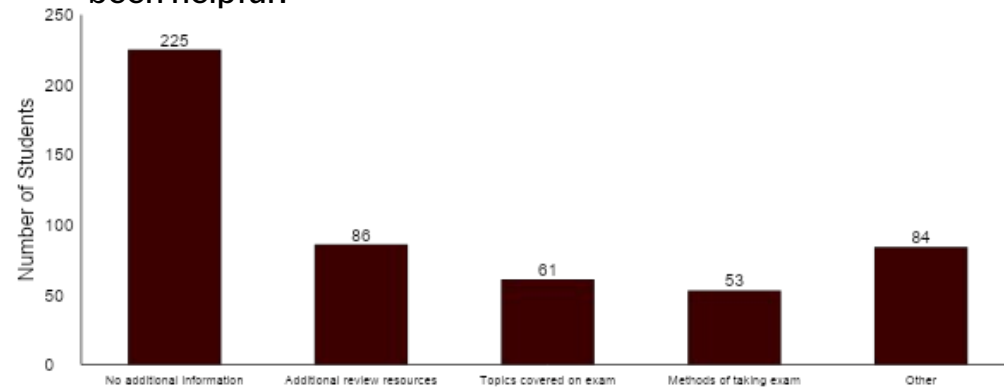Was the MPE information provided before your NSC sufficient?

Responses: 995

Was the MPE information provided after your NSC sufficient?

- Yes
- No

9.65%

90.35%

Responses: 509

Open-Ended: What additional MPE information would have been helpful?

No additional information	Additional review resources	Topics covered on exam	Methods of taking exam	Other
225	86	61	53	84

Number of Students

Responses: 648

Open-Ended: How, if at all, did taking the MPE during your NSC affect your performance?

Helped performance	Did not affect performance	Hindered performance
99	311	238

Number of Students
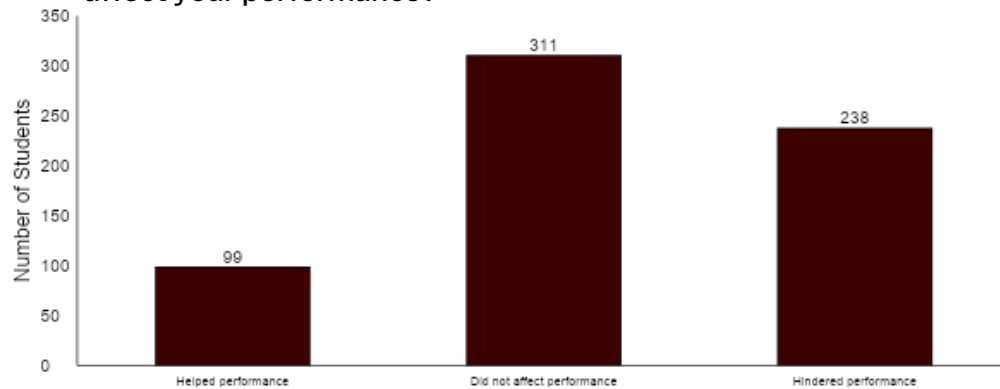
Responses: 648

Open-Ended: What recommendations (regarding MPE preparation) do you have for prospective students who will be taking the MPE during their NSC in Summer 2019?
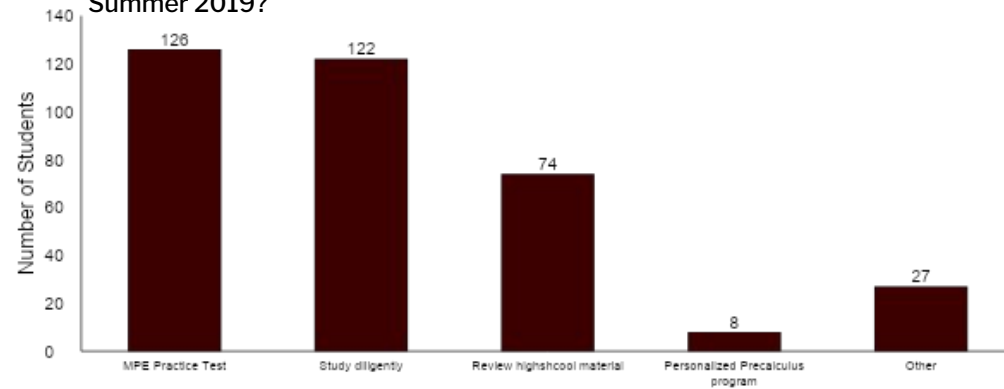
MPE Practice Test	Study diligently	Review highschool material	Personalized Precalculus program	Other
126	122	74	8	27

Number of Students

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What are you most concerned/worried about regarding your first year in engineering (select all that apply)

ENGINEERING
TEXAS A&M UNIVERSITY

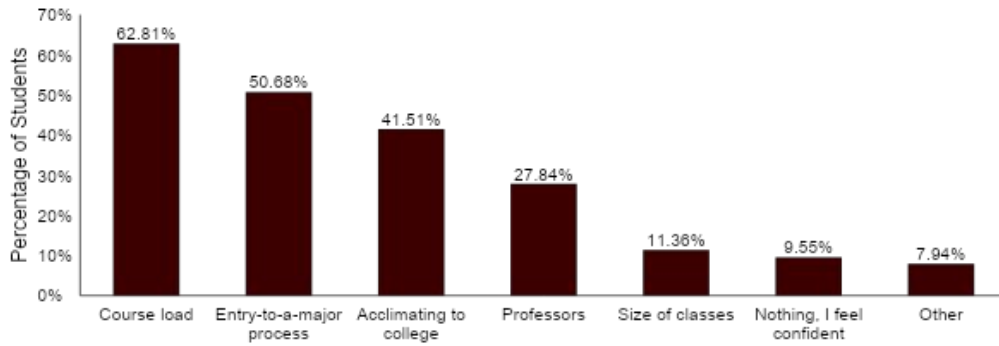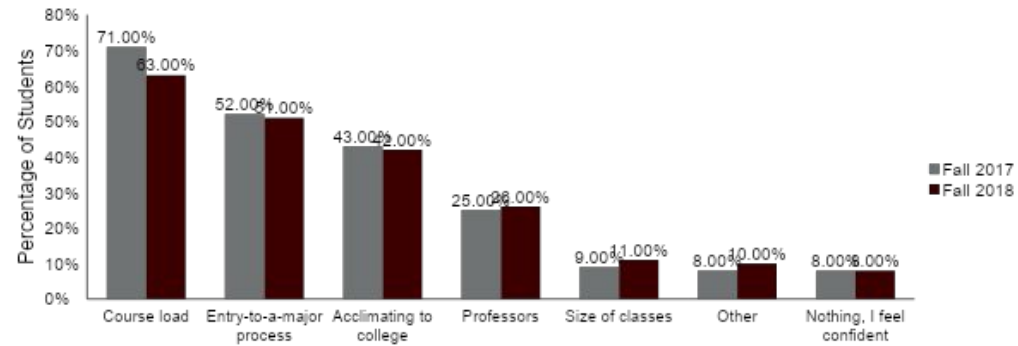## What are you most concerned/worried about regarding your first year in engineering (select all that apply)

ENGINEERING
TEXAS A&M UNIVERSITY

Open-Ended: As a first-year engineering student at Texas A&M University, what resources/programs/services are helping you adjust to the College of Engineering?
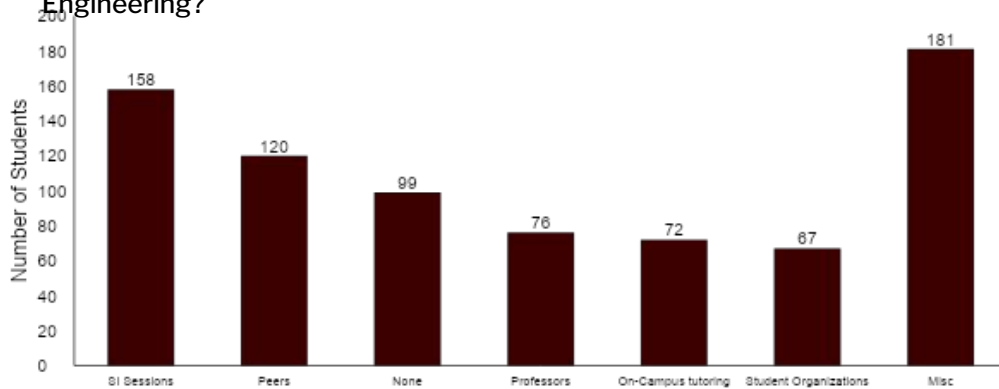
ENGINEERING
TEXAS A&M UNIVERSITY

Open-Ended: As a first-year engineering student at Texas A&M University, what trainings/workshops/programs/services/popup-classes would be most helpful for you?

ENGINEERING TEXAS A&M UNIVERSITY

Responses: 995

Have you decided on an engineering discipline in which you would like to major in?
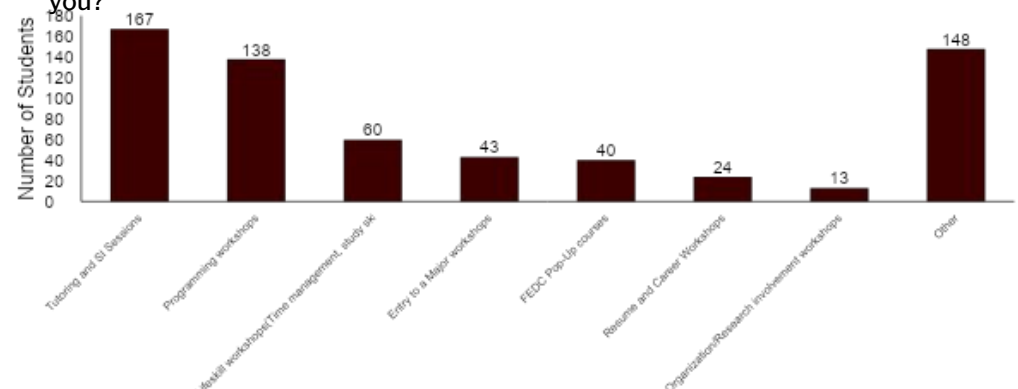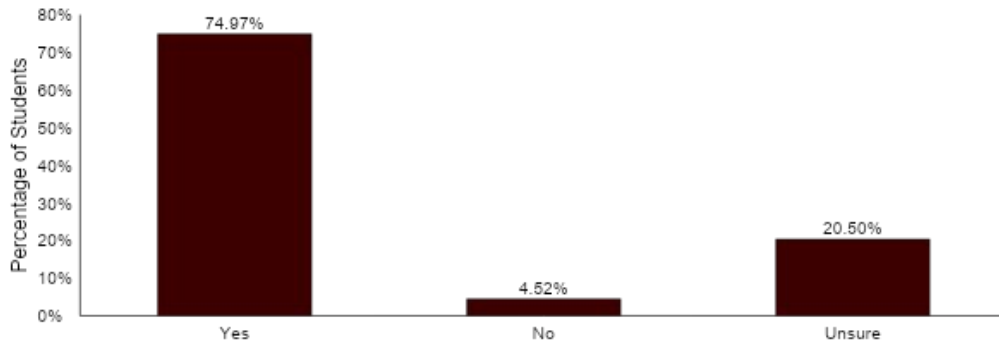
ENGINEERING TEXAS A&M UNIVERSITY

Responses: 709

(Entry) How would you describe your comfort level with programming?

ENGINEERING TEXAS A&M UNIVERSITY
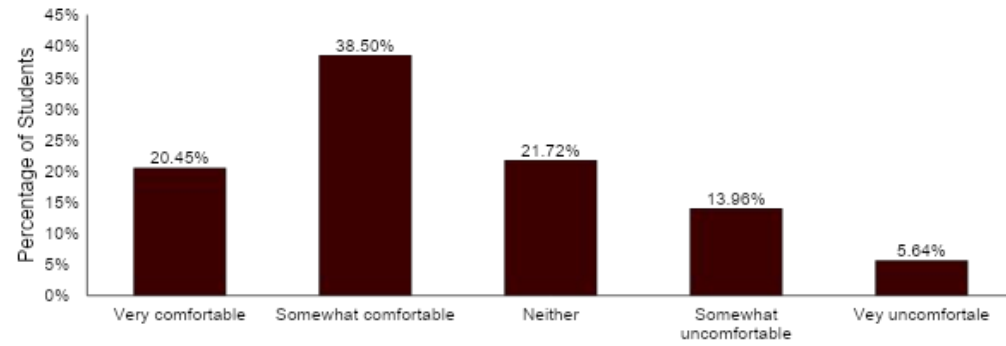
Responses: 1049

(Entry) List the two courses from the general engineering curriculum that you are most concerned or worried about.

ENGINEERING TEXAS A&M UNIVERSITY
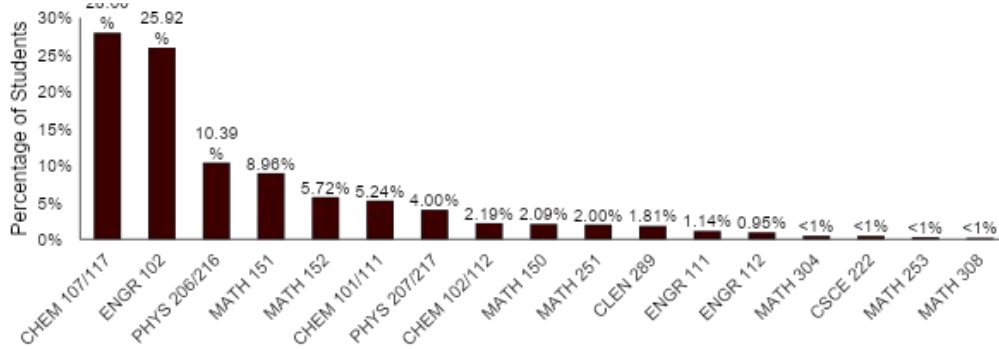
Asked to Students enrolled in ENGR 102
Responses: 415

(Entry) What do you hope to gain from ENGR 102? (select all that apply)

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TEXAS A&M UNIVERSITY

(Entry) What do you hope to gain from CLEN 289? (select all that apply)

Percentage of Students

- 65.49% — Knowledge of engineering disciplines
- 57.52% — Improved communication with engineering faculty
- 57.52% — Interpersonal skills relevant to engineering
- 55.75% — Knowledge of campus resources and opportunities
- 50.44% — Knowledge of university support systems
- 7.08% — Other

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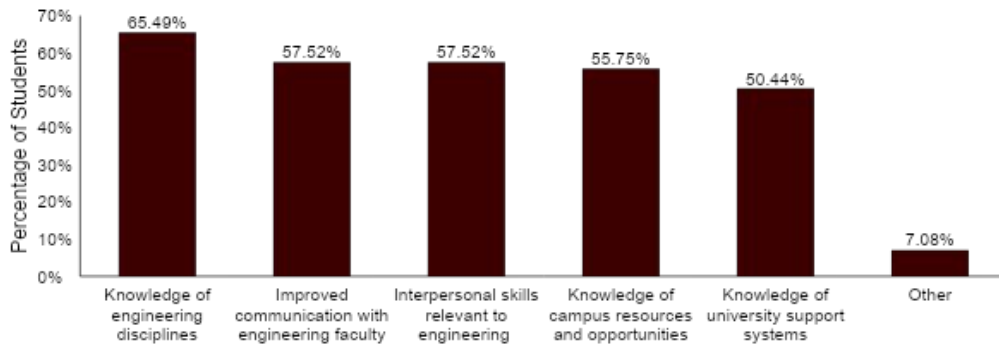
(Entry) What academic support services have you heard of? (select all that apply)

Percentage of Students

- 92.86% — Professor office hours
- 79.81% — Supplemental Instruction (from COE & ASC)
- 71.43% — Peer tutoring (from COE and Academic Success Center)
- 60.77% — Math help sessions and week-in-review sessions
- 51.86% — Chem lab TA help desk
- 42.96% — ENGR 102/216/112 peer teacher office hours
- 28.67% — Student success workshops (Academic Success Center)
- 26.81% — Academic coaching

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(Entry) Of the resources that you are aware, how often have you used these resources so far?

Percentage of Students

Legend: 10+ times, 6-9 times, 3-5 times, 1-2 times, 0 times

- Peer tutoring: 70.45%, 17.03%, 8.01%
- Supplemental Instruction Sessions: 45.95%, 27.81%, 15.67%
- Professor office hours: 57.22%, 30.35%, 8.62%
- ENGR 102/111/112 peer teacher office hours: 79.23%, 15.46%, 3.62%
- Math help sessions: 63.75%, 22.68%, 9.45%
- Chem lab TA help desk: 68.01%, 22.74%, 6.44%
- Academic coaching: 86.67%, 10.20%, 2.35%
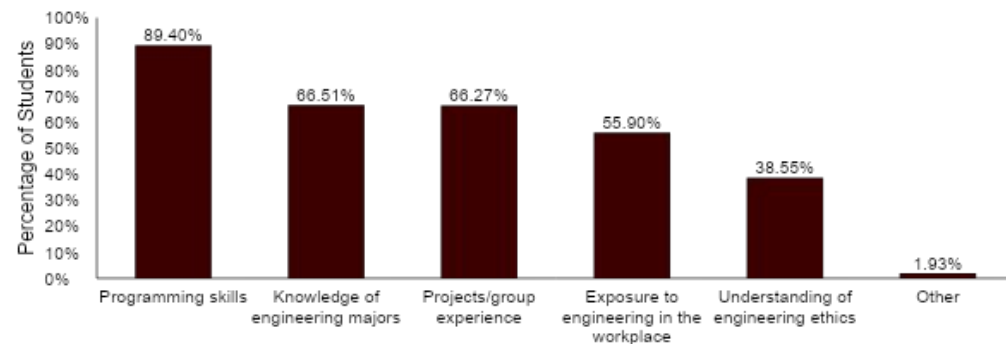- Student success workshops: 88.32%, 9.49%, 2.19%

ĀĪM̄ ENGINEERING
TEXAS A&M UNIVERSITY

(Entry) Have you decided on an engineering discipline in which you would like to major in?

Legend: Yes, No, Unsure

- 75.00% — Yes
- 5% — No
- 21.00% — Unsure
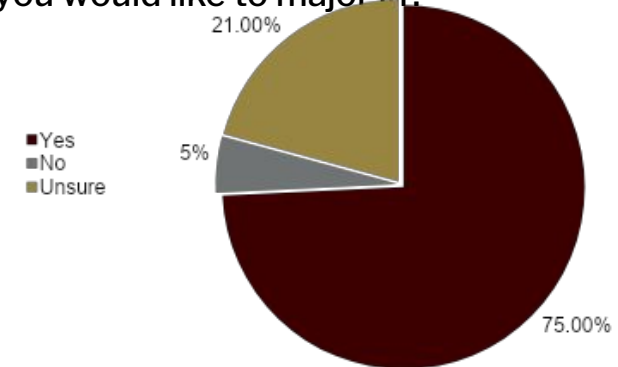
(Entry) What is your first choice major?
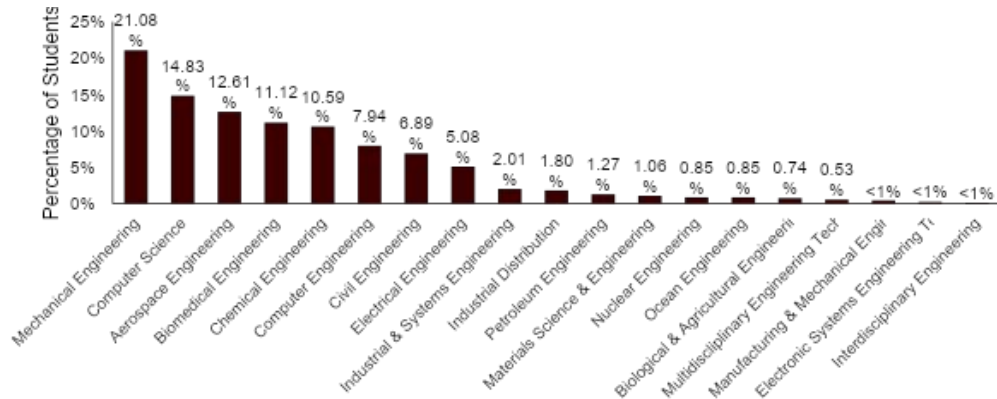
(Entry) How certain are you in your decision?
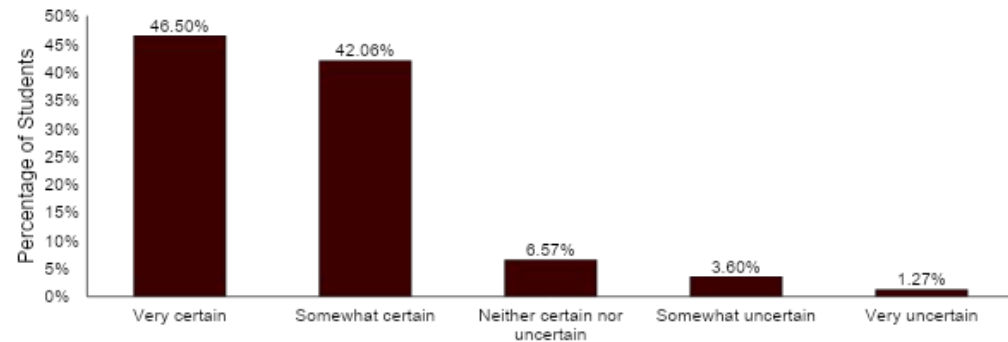
(Entry) Please indicate the extent to which you agree or disagree with the following statements