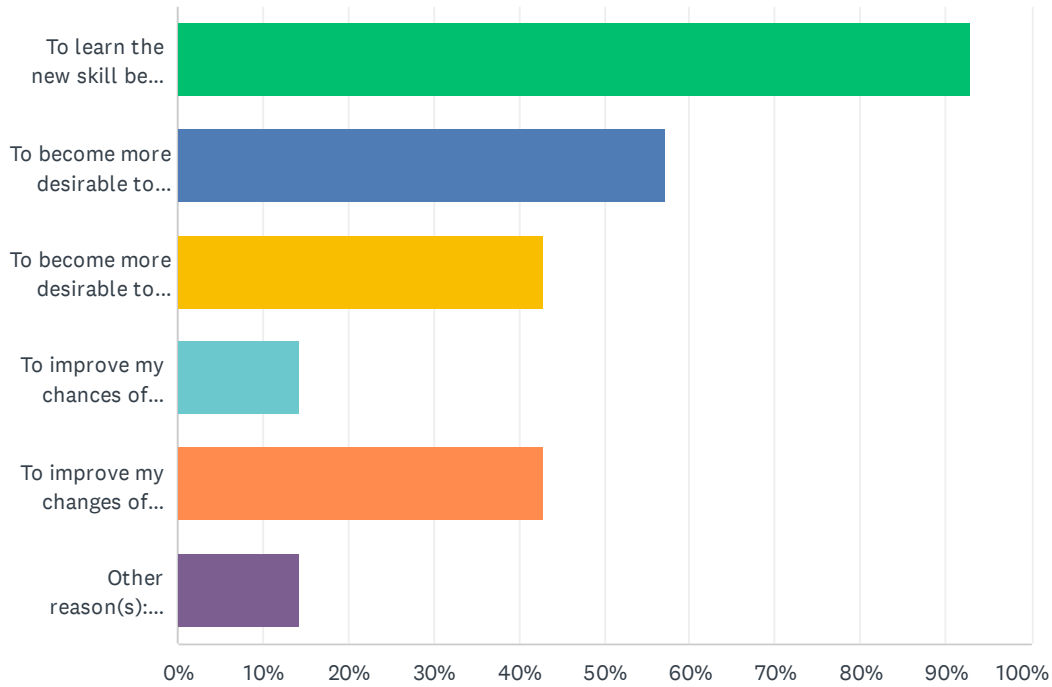


Q1 Why were you originally interested in attending these workshops? [Select all that apply]

Answered: 14 Skipped: 0

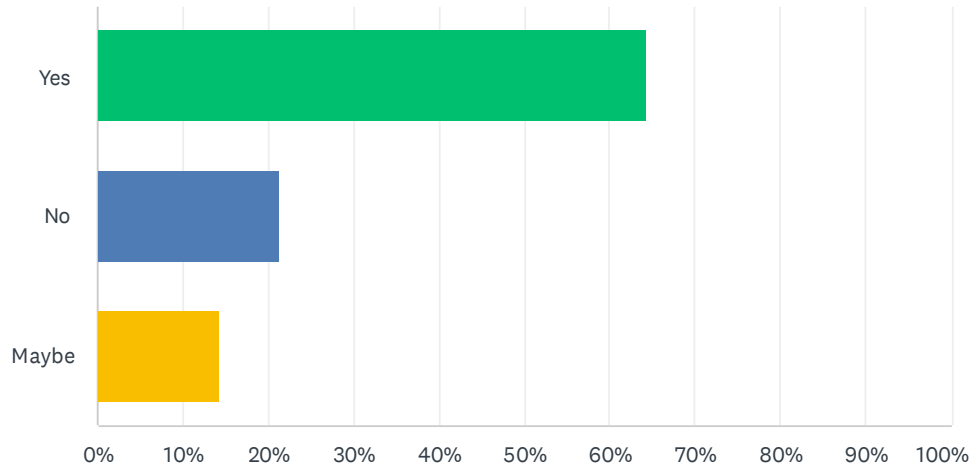


| ANSWER CHOICES | RESPONSES | |
|---|-----------|----|
| To learn the new skill being taught | 92.86% | 13 |
| To become more desirable to potential employers | 57.14% | 8 |
| To become more desirable to universities | 42.86% | 6 |
| To improve my chances of getting a scholarship | 14.29% | 2 |
| To improve my chances of getting an internship | 42.86% | 6 |
| Other reason(s): (please describe) | 14.29% | 2 |
| Total Respondents: 14 | | |

| # | OTHER REASON(S): (PLEASE DESCRIBE) | DATE |
|---|--|------------------|
| 1 | to share my experience with other students | 5/3/2022 9:58 PM |
| 2 | Seemed like it would be fun | 5/3/2022 2:29 PM |

Q2 If these workshops were offered as one-unit courses (at \$46 per unit), would you take the course or recommend it to another student?

Answered: 14 Skipped: 0



| ANSWER CHOICES | RESPONSES |
|----------------|-----------|
| Yes | 64.29% 9 |
| No | 21.43% 3 |
| Maybe | 14.29% 2 |
| TOTAL | 14 |

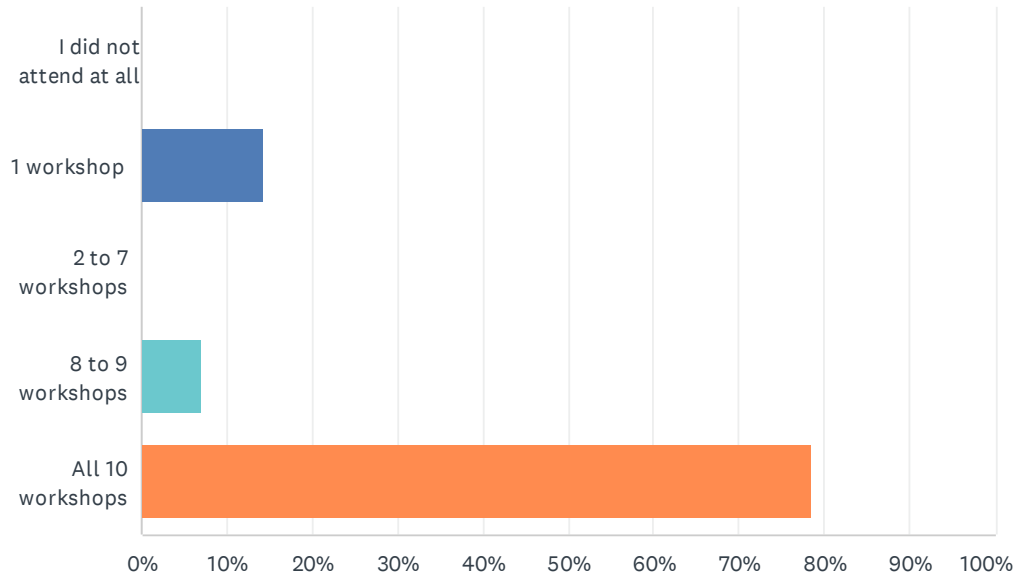
Q3 Briefly explain your decision to the question above:

Answered: 10 Skipped: 4

| # | RESPONSES | DATE |
|----|---|--------------------|
| 1 | The workshop was fun but mostly I feel like I did not learn much from it | 5/13/2022 12:58 PM |
| 2 | I would for sure take it. It is a great opportunity to learn a new skill outside class. | 5/9/2022 11:30 AM |
| 3 | It has a good amount of knowledge being taught | 5/9/2022 10:55 AM |
| 4 | The workshop was great but it was not dense or structured enough to be a course. I enjoyed my time in the workshop but I would both be more serious about a class, but also expect just as serious and more dense of a course. | 5/4/2022 10:29 PM |
| 5 | as currently presented -the workshops are cookie-cutter labs with little or no explanation - thus little learning or valuable experience.. | 5/3/2022 9:58 PM |
| 6 | I do not want to worry about another class. This being an optional workshop is the best form. | 5/3/2022 5:17 PM |
| 7 | The course was great for a free introduction to Arduino. If i had paid for the course i would have expected a bit more detail on actual code writing relating to using the Arduino. In this workshop we tended to copy and paste, plug and play, which was fine by me and my style of learning. | 5/3/2022 3:33 PM |
| 8 | It would not be eligible for transfer (being one unit), but it is still something I am interested in, so if I had extra time in a semester, I would sign up for this. | 5/3/2022 2:29 PM |
| 9 | It was definitely interesting and would be worth the 5 dollars or so per session. | 5/3/2022 2:29 PM |
| 10 | This workshop really taught me a lot on hands experience on hardware and software, so I think it is worth one-unit. | 5/3/2022 1:28 PM |

Q4 How many Engineering workshops did you attend?

Answered: 14 Skipped: 0



| ANSWER CHOICES | RESPONSES |
|-------------------------|-----------|
| I did not attend at all | 0.00% 0 |
| 1 workshop | 14.29% 2 |
| 2 to 7 workshops | 0.00% 0 |
| 8 to 9 workshops | 7.14% 1 |
| All 10 workshops | 78.57% 11 |
| TOTAL | 14 |

Q5 Why did you decide not to attend any workshops?

Answered: 0 Skipped: 14

| # | RESPONSES | DATE |
|---|-------------------------|------|
| | There are no responses. | |

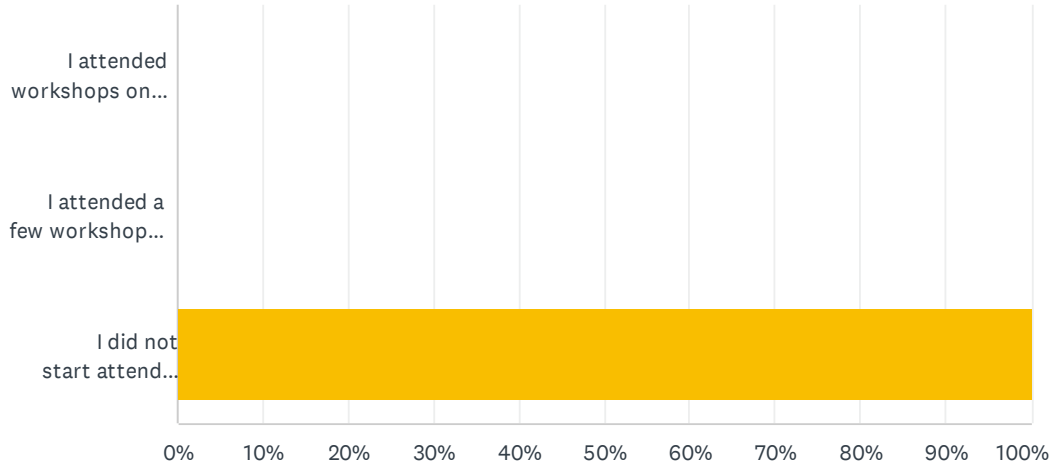
Q6 Please explain why you only attended once.

Answered: 3 Skipped: 11

| # | RESPONSES | DATE |
|---|---|-------------------|
| 1 | I just learned about the workshops this semester. | 5/10/2022 7:21 PM |
| 2 | I only had 1 opportunity while taking classes at Mesa. | 5/9/2022 11:30 AM |
| 3 | I didnt attend once, I attended one workshop. This was the first workshop available to me after returning to in person. | 5/3/2022 7:46 PM |

Q7 Please select the option that best reflects your experience attending the Spring 2022 Engineering workshops:

Answered: 1 Skipped: 13



| ANSWER CHOICES | RESPONSES | |
|---|-----------|----------|
| I attended workshops on and off. | 0.00% | 0 |
| I attended a few workshops in a row and then stopped attending. | 0.00% | 0 |
| I did not start attending the workshops from the beginning, but then attended the rest (or most). | 100.00% | 1 |
| TOTAL | | 1 |

Q8 Please explain why you attended workshops on and off.

Answered: 0 Skipped: 14

| # | RESPONSES | DATE |
|---|-------------------------|------|
| | There are no responses. | |

Q9 Please explain why you stopped attending after completing a few workshops?

Answered: 0 Skipped: 14

| # | RESPONSES | DATE |
|---|-------------------------|------|
| | There are no responses. | |

Q10 Please explain why you did not attend from the beginning, but then completed the rest (or most).

Answered: 1 Skipped: 13

| # | RESPONSES | DATE |
|---|--|-------------------|
| 1 | I attended all but one workshop in the middle. I intended to attend all 10 workshops, but my work called me in on one day and I was unable to attend all 10. | 5/9/2022 10:56 AM |

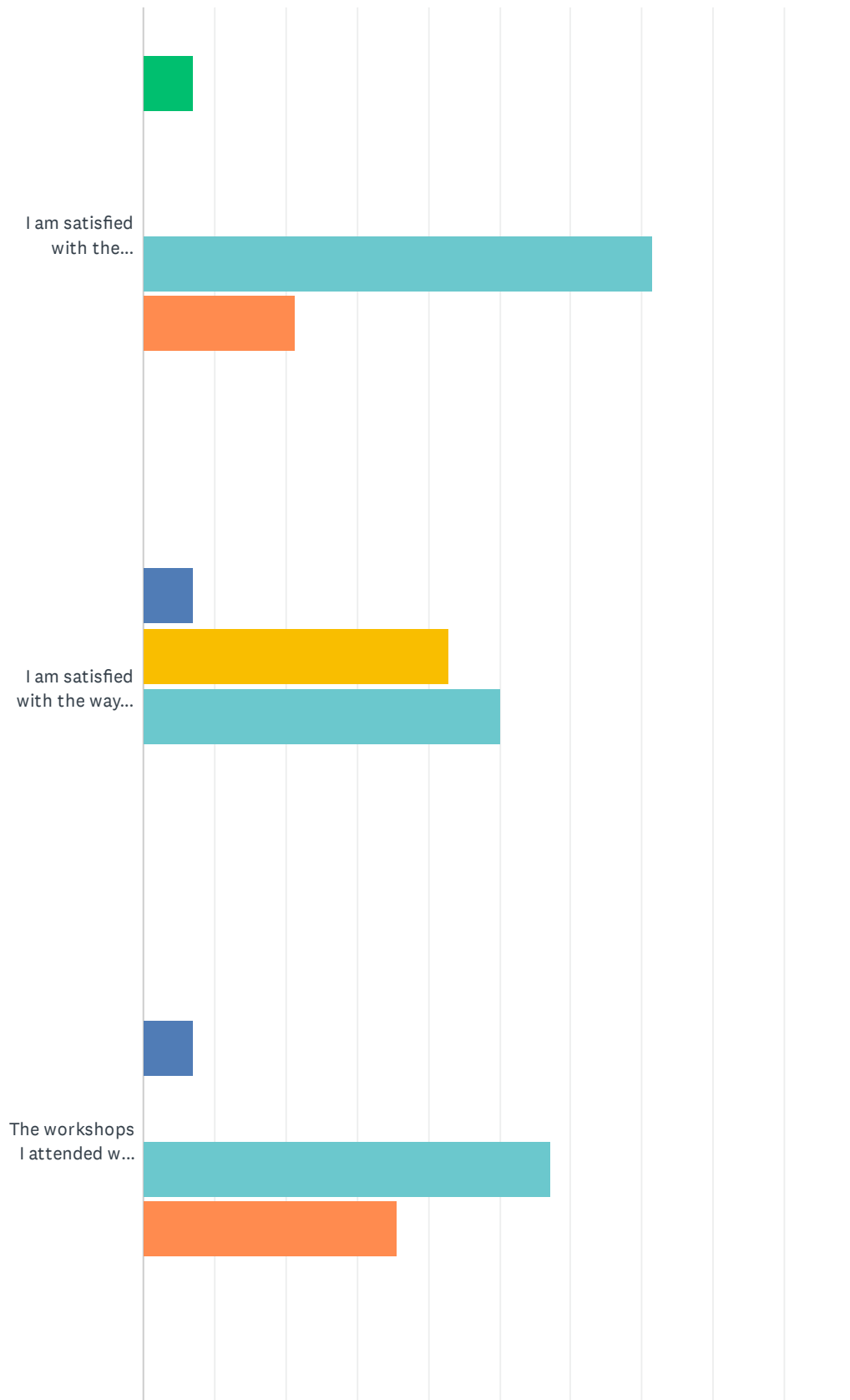
Q11 What motivated to attend all 10 workshops?

Answered: 11 Skipped: 3

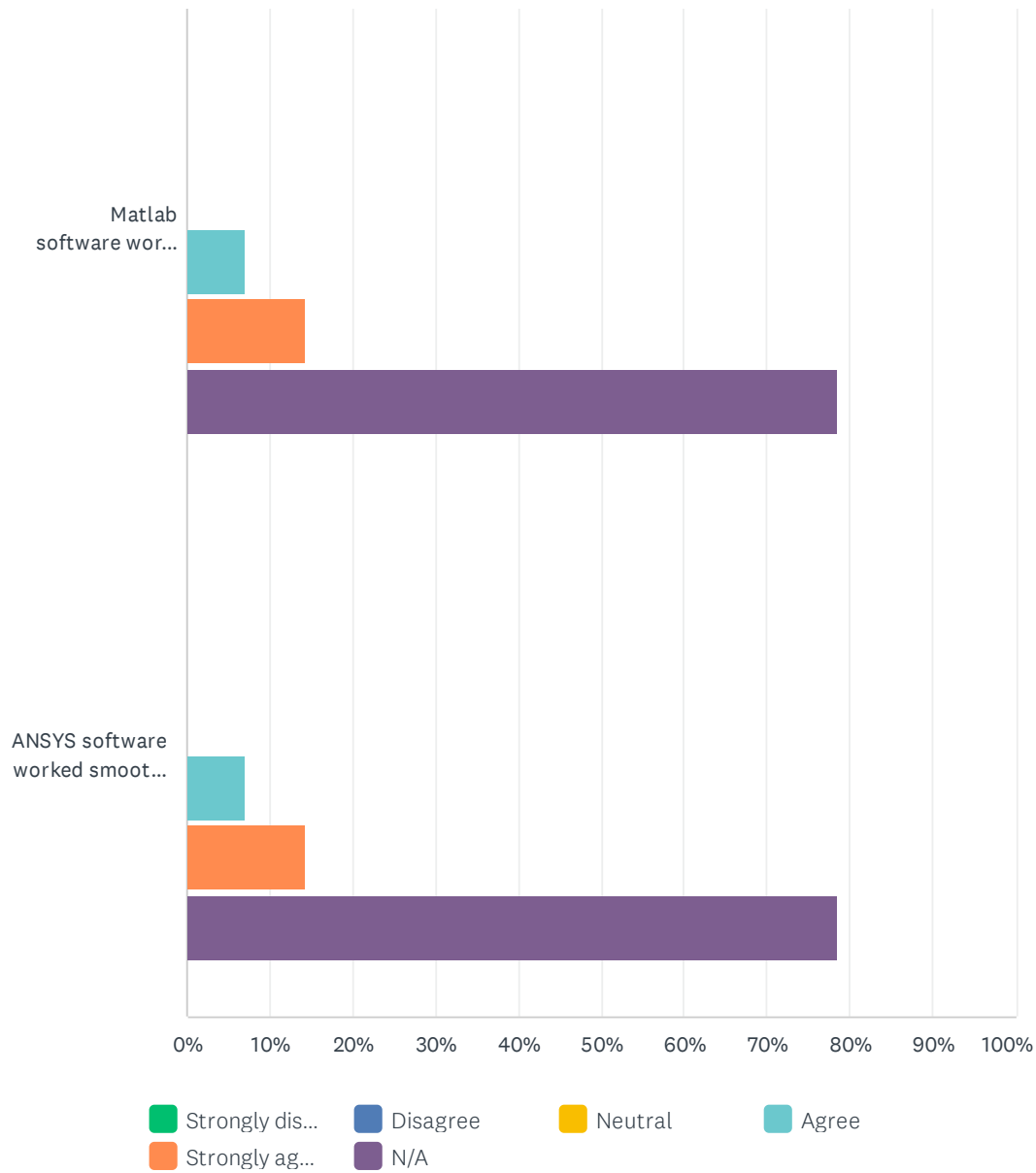
| # | RESPONSES | DATE |
|----|--|--------------------|
| 1 | The certificate and to truly understand the concept being taught. | 5/13/2022 8:03 PM |
| 2 | I wanted to learn something new from the workshop, and it's the requirement for the certification | 5/13/2022 12:59 PM |
| 3 | They were interesting | 5/10/2022 7:21 PM |
| 4 | To earn the certificate of completion, to learn more and to have more interaction with the professor and other engineering students. | 5/5/2022 9:39 AM |
| 5 | I have signed an honors contract and I am required to attend. However, I was available and interested in all workshops. | 5/4/2022 10:29 PM |
| 6 | to share my experience & knowledge acquired over several years working with various microcontrollers and sensors / actuators. | 5/3/2022 9:59 PM |
| 7 | The content was interesting | 5/3/2022 5:17 PM |
| 8 | The subject matter was interesting. I intend to use the Arduino after the workshops are completed to do various tasks. | 5/3/2022 3:34 PM |
| 9 | I wanted to learn. | 5/3/2022 2:29 PM |
| 10 | I had time and it was interesting material. | 5/3/2022 2:29 PM |
| 11 | First of all, the workshop itself is interesting enough, and the time Friday morning that I am always available. Secondly, I also want to get a certificate. | 5/3/2022 1:30 PM |

Q12 Rate your agreement with the statements below:

Answered: 14 Skipped: 0



Spring 2022 Engineering Workshops Survey | Mesa College



| | STRONGLY DISAGREE | DISAGREE | NEUTRAL | AGREE | STRONGLY AGREE | N/A | TOTAL | WEIGHTED AVERAGE |
|--|-------------------|------------|-------------|--------------|----------------|--------------|-------|------------------|
| I am satisfied with the content learned by participating in the workshops. | 7.14% 1 | 0.00% 0 | 0.00% 0 | 71.43% 10 | 21.43% 3 | 0.00% 0 | 14 | 4.00 |
| I am satisfied with the way the content was taught in the workshops. | 0.00% 0 | 7.14% 1 | 42.86% 6 | 50.00% 7 | 0.00% 0 | 0.00% 0 | 14 | 3.43 |
| The workshops I attended were engaging. | 0.00% 0 | 7.14% 1 | 0.00% 0 | 57.14% 8 | 35.71% 5 | 0.00% 0 | 14 | 4.21 |
| Matlab software worked smoothly in my computer. | 0.00% 0 | 0.00% 0 | 0.00% 0 | 7.14% 1 | 14.29% 2 | 78.57% 11 | 14 | 4.67 |
| ANSYS software worked smoothly in my computer. | 0.00% 0 | 0.00% 0 | 0.00% 0 | 7.14% 1 | 14.29% 2 | 78.57% 11 | 14 | 4.67 |

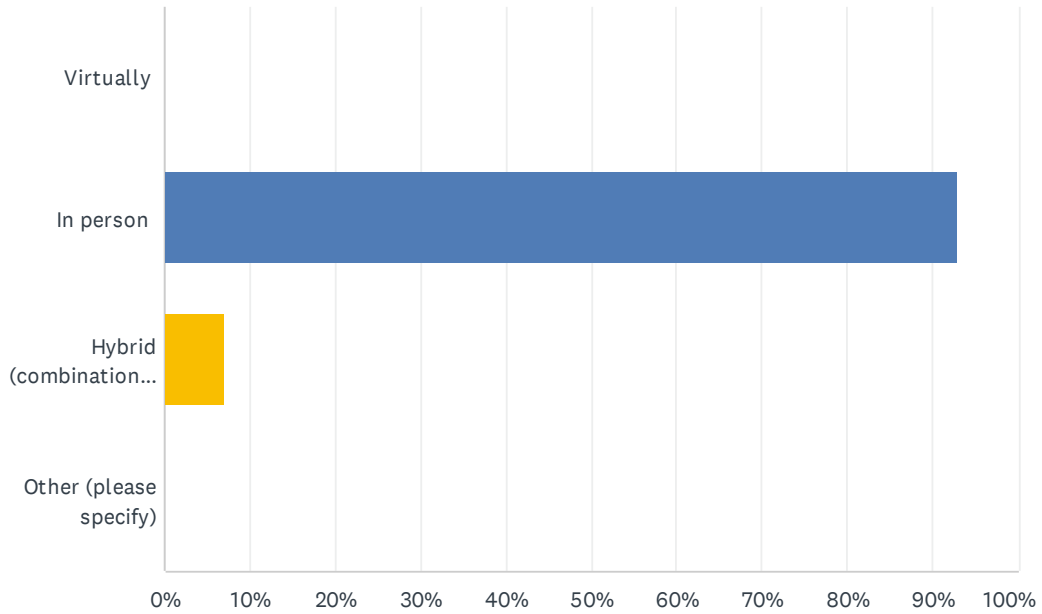
Q13 If you would like to share additional comments about your satisfaction or engagement with the workshops or the software used, please enter them here:

Answered: 3 Skipped: 11

| # | RESPONSES | DATE |
|---|--|-------------------|
| 1 | shape content/topics to needs/interests expressed by students during the first day introductions. | 5/3/2022 10:02 PM |
| 2 | We didn't use MATLAB or ANSYS in this workshop. Overall the workshops were fun and a good use of my time on Fridays where i have no other classes. | 5/3/2022 3:35 PM |
| 3 | It was very nice, I learned a lot and always looked forward to it. | 5/3/2022 2:30 PM |

Q14 What is the ideal format to offer these workshops?

Answered: 14 Skipped: 0

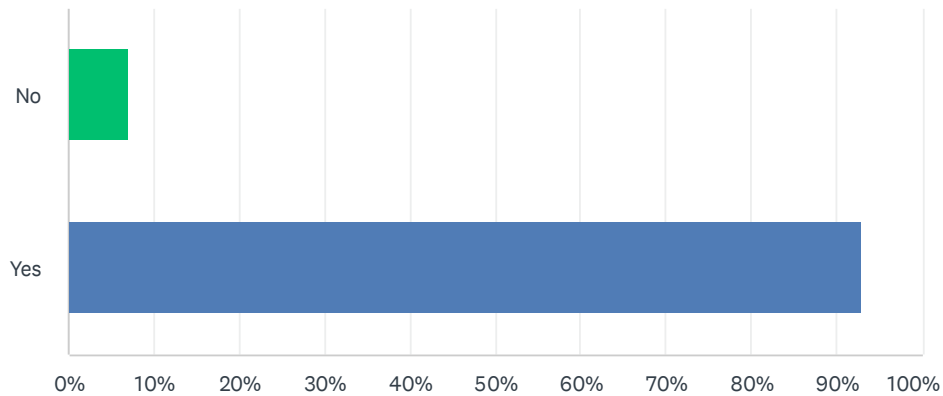


| ANSWER CHOICES | RESPONSES | |
|--|-----------|-----------|
| Virtually | 0.00% | 0 |
| In person | 92.86% | 13 |
| Hybrid (combination of online and in person) | 7.14% | 1 |
| Other (please specify) | 0.00% | 0 |
| TOTAL | | 14 |

| # | OTHER (PLEASE SPECIFY) | DATE |
|---|-------------------------|------|
| | There are no responses. | |

Q15 Did you find the Canvas shell helpful? If so, how?

Answered: 14 Skipped: 0

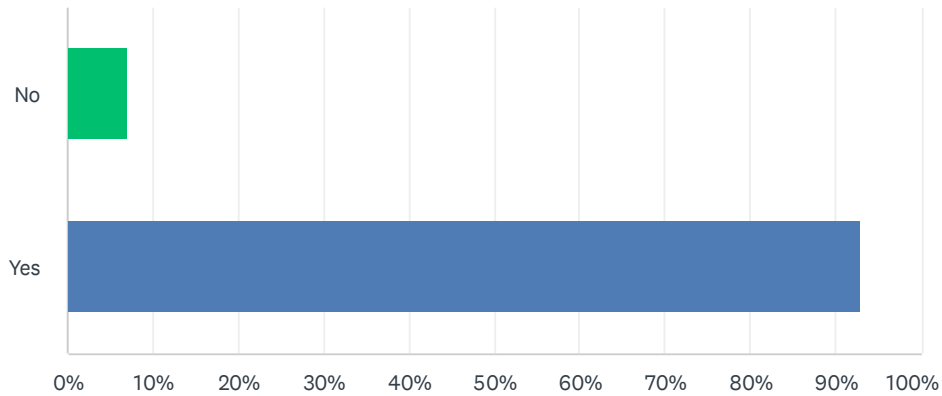


| ANSWER CHOICES | RESPONSES | |
|----------------|-----------|----|
| No | 7.14% | 1 |
| Yes | 92.86% | 13 |
| TOTAL | | 14 |

| # | YES | DATE |
|----|--|-------------------|
| 1 | The access to the google documents and really look at the examples and diagrams for the projects. | 5/13/2022 8:05 PM |
| 2 | It helps me get prepared for lessons of this workshop | 5/13/2022 1:02 PM |
| 3 | We had access to all the resources. | 5/10/2022 7:21 PM |
| 4 | It was helpful to have access to content posted by the professor related to the workshop. | 5/9/2022 11:32 AM |
| 5 | I found it helpful to remember to turn in assignments. | 5/9/2022 10:56 AM |
| 6 | There were recorded lectures and assignments that I could practice/work on at home | 5/5/2022 9:42 AM |
| 7 | Plenty of content, instruction, and resources. | 5/4/2022 10:30 PM |
| 8 | the only place we got lab instructions - no other references given. | 5/3/2022 10:03 PM |
| 9 | Easier to have professors contact information. Easier to see the contents of the course and access the materials. | 5/3/2022 7:47 PM |
| 10 | Canvass is a good tool that lets me see useful info | 5/3/2022 5:19 PM |
| 11 | The course links were available on canvas. Im used to canvas through my other courses at Mesa. It wasnt particularly helpful as much as it was familiar. | 5/3/2022 3:36 PM |
| 12 | An easy place to put assignments. | 5/3/2022 2:31 PM |
| 13 | Help students catch up learning materials. | 5/3/2022 1:31 PM |

Q16 Is/would receiving a participation or attendance certificate valuable to your career path? If so, how? Note: Students who completed at least eight workshops received a certificate.

Answered: 14 Skipped: 0

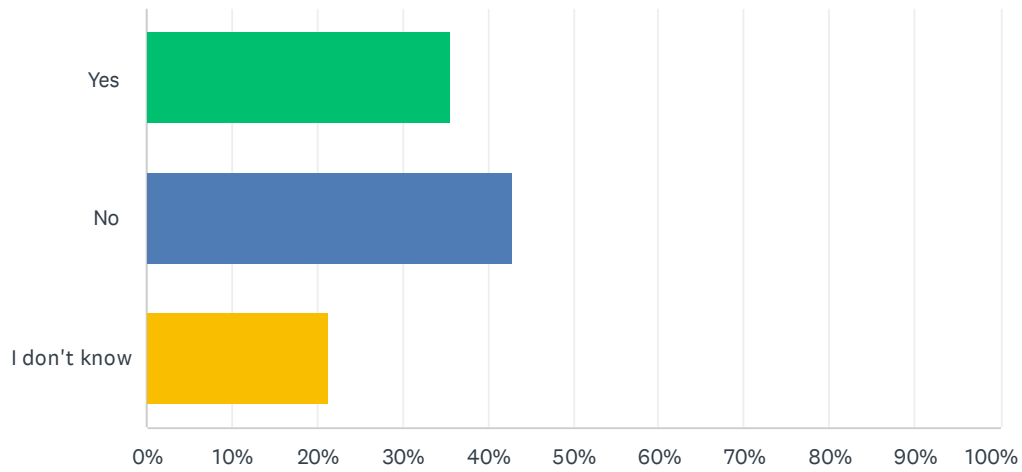


| ANSWER CHOICES | RESPONSES |
|----------------|-----------|
| No | 7.14% 1 |
| Yes | 92.86% 13 |
| TOTAL | 14 |

| # | YES | DATE |
|----|---|-------------------|
| 1 | A physical representation of my attendance would benefit me strongly through my resume and applications. | 5/13/2022 8:05 PM |
| 2 | At least I have something new added to my resume | 5/13/2022 1:03 PM |
| 3 | Yes. It looks good on resume. | 5/9/2022 11:33 AM |
| 4 | Yes, the certificate will help me get a transfer/job in my desired field of bioengineering, a field similar in many ways to the mechatronics field. | 5/9/2022 10:57 AM |
| 5 | Any engineering extracurricular that I can put on my resume is helpful | 5/5/2022 9:43 AM |
| 6 | Shows proof of skill for arduinos | 5/4/2022 10:30 PM |
| 7 | not for me - I am already retired | 5/3/2022 10:04 PM |
| 8 | I am really looking for experience in my field and getting an internship can be a challenge. Certifications certainly help. | 5/3/2022 7:49 PM |
| 9 | It would look better on my resume | 5/3/2022 5:22 PM |
| 10 | I am unsure, but learning a new skill is always worthwhile. | 5/3/2022 3:37 PM |
| 11 | It might be very slightly useful to show that I have experience with applications of code. | 5/3/2022 2:32 PM |
| 12 | I think showing an interest and ability to learn would be beneficial for any career path, even if it isn't directly related to the certificate | 5/3/2022 2:31 PM |
| 13 | I think it is useful while applying to an internship. | 5/3/2022 1:31 PM |

Q17 Do you identify as a low-income student?

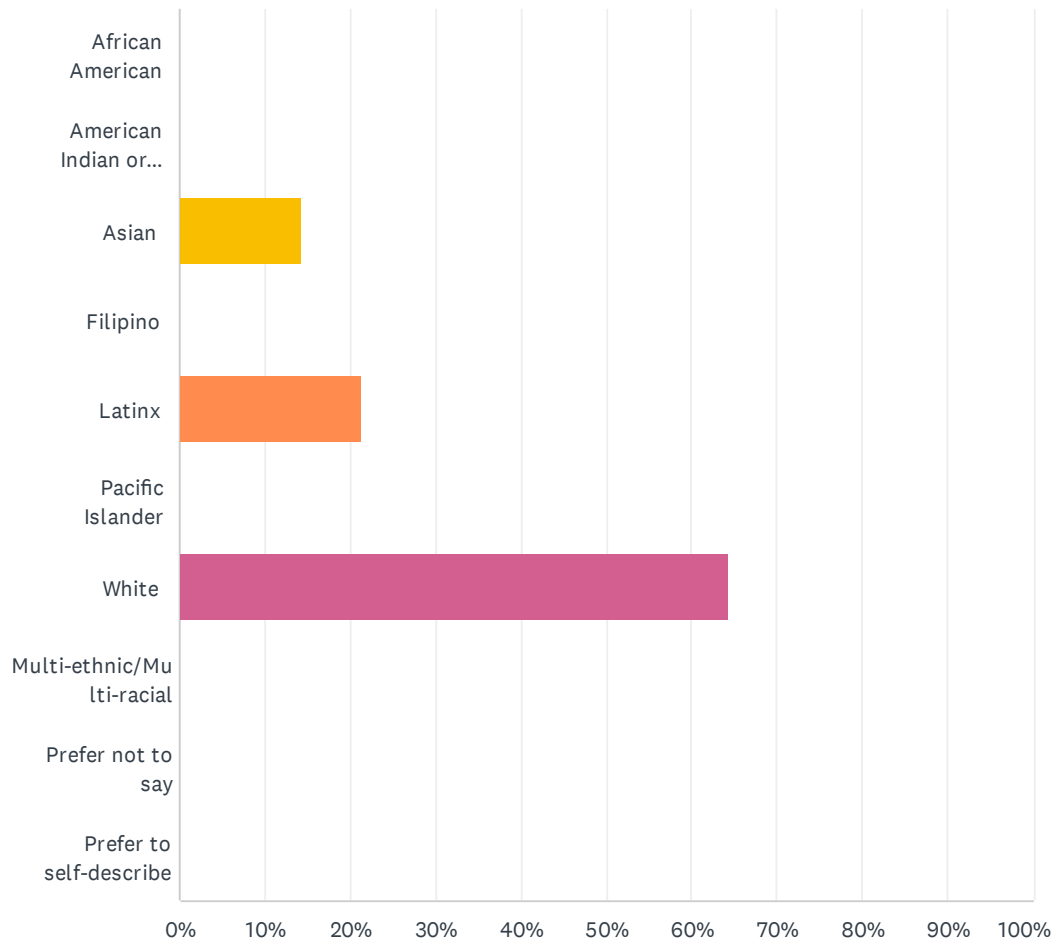
Answered: 14 Skipped: 0



| ANSWER CHOICES | RESPONSES | |
|----------------|-----------|-----------|
| Yes | 35.71% | 5 |
| No | 42.86% | 6 |
| I don't know | 21.43% | 3 |
| TOTAL | | 14 |

Q18 Please select the ethnicity to which you most closely identify.

Answered: 14 Skipped: 0



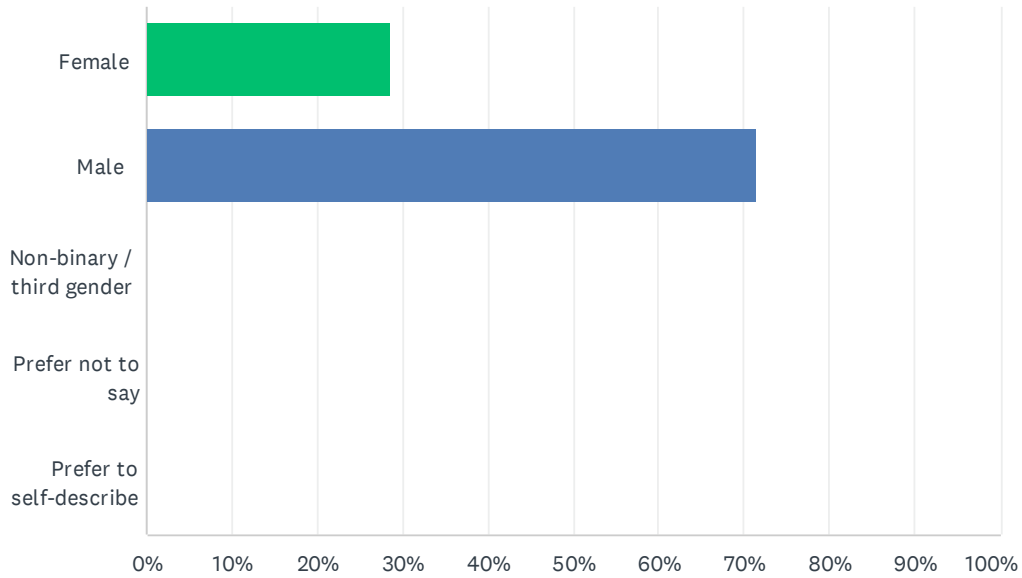
Spring 2022 Engineering Workshops Survey | Mesa College

| ANSWER CHOICES | RESPONSES | |
|----------------------------------|-----------|-----------|
| African American | 0.00% | 0 |
| American Indian or Alaska Native | 0.00% | 0 |
| Asian | 14.29% | 2 |
| Filipino | 0.00% | 0 |
| Latinx | 21.43% | 3 |
| Pacific Islander | 0.00% | 0 |
| White | 64.29% | 9 |
| Multi-ethnic/Multi-racial | 0.00% | 0 |
| Prefer not to say | 0.00% | 0 |
| Prefer to self-describe | 0.00% | 0 |
| TOTAL | | 14 |

| # | PREFER TO SELF-DESCRIBE | DATE |
|---|-------------------------|------|
| | There are no responses. | |

Q19 What is your gender?

Answered: 14 Skipped: 0

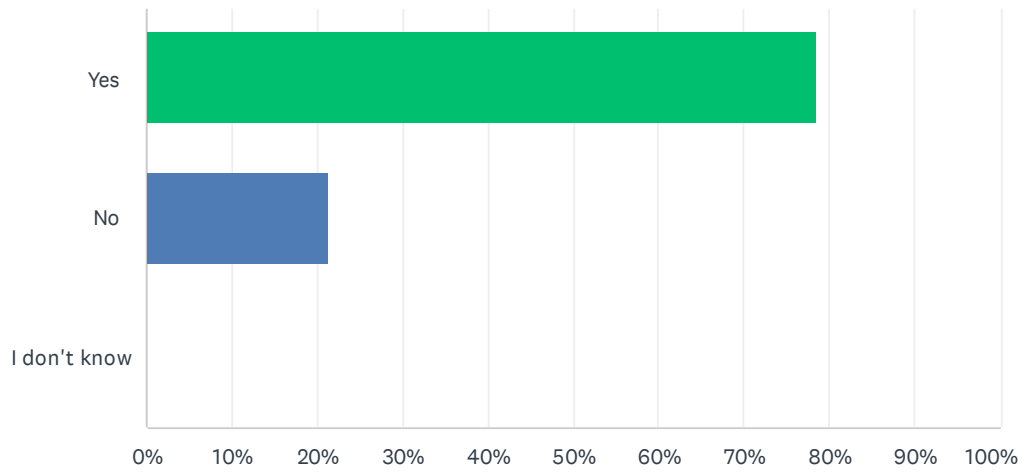


| ANSWER CHOICES | RESPONSES | |
|---------------------------|-----------|-----------|
| Female | 28.57% | 4 |
| Male | 71.43% | 10 |
| Non-binary / third gender | 0.00% | 0 |
| Prefer not to say | 0.00% | 0 |
| Prefer to self-describe | 0.00% | 0 |
| TOTAL | | 14 |

| # | PREFER TO SELF-DESCRIBE | DATE |
|---|-------------------------|------|
| | There are no responses. | |

Q20 Did any of your parents attend college?

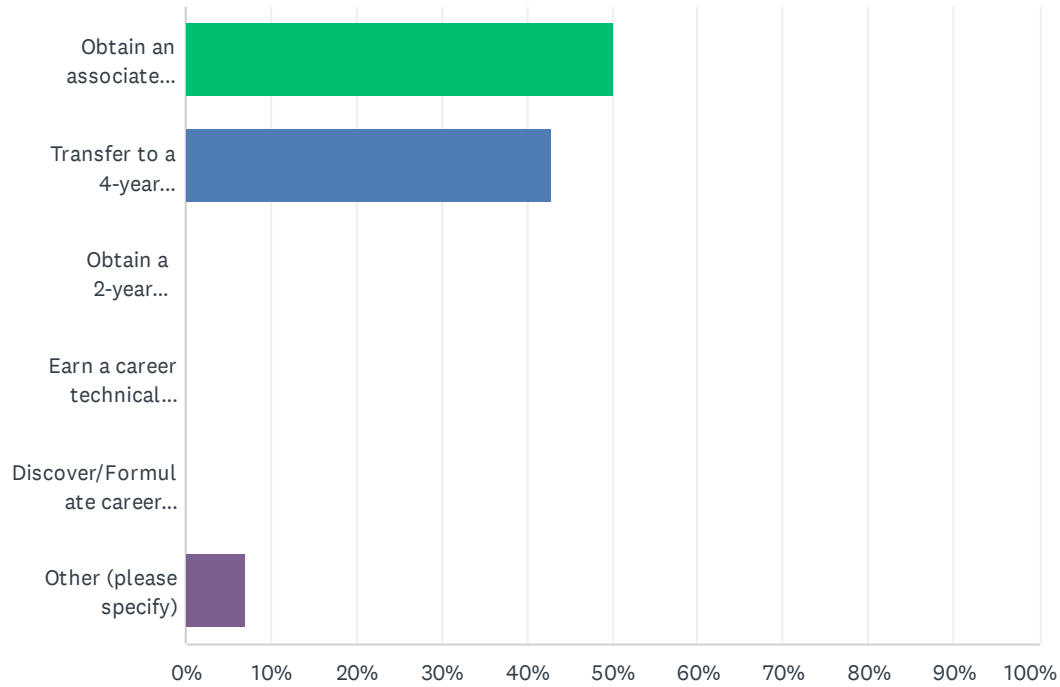
Answered: 14 Skipped: 0



| ANSWER CHOICES | RESPONSES | |
|----------------|-----------|-----------|
| Yes | 78.57% | 11 |
| No | 21.43% | 3 |
| I don't know | 0.00% | 0 |
| TOTAL | | 14 |

Q21 What is your current educational goal?

Answered: 14 Skipped: 0



| ANSWER CHOICES | RESPONSES | |
|---|-----------|-----------|
| Obtain an associate degree and transfer to a 4-year institution | 50.00% | 7 |
| Transfer to a 4-year institution without an associate degree | 42.86% | 6 |
| Obtain a 2-year associate degree without transfer | 0.00% | 0 |
| Earn a career technical certificate without transfer | 0.00% | 0 |
| Discover/Formulate career interests, plans, goals | 0.00% | 0 |
| Other (please specify) | 7.14% | 1 |
| TOTAL | | 14 |

| # | OTHER (PLEASE SPECIFY) | DATE |
|---|---|-------------------|
| 1 | to help students move forward in their chosen path. | 5/3/2022 10:06 PM |

Q22 What is your career goal? (what do you want to do when you achieve your educational goal)

Answered: 14 Skipped: 0

| # | RESPONSES | DATE |
|----|--|-------------------|
| 1 | Decide on which engineering path to take. | 5/13/2022 8:07 PM |
| 2 | I want to work in mechanical engineering field | 5/13/2022 1:04 PM |
| 3 | Software Engineering | 5/10/2022 7:22 PM |
| 4 | Cybersecurity engineer | 5/9/2022 11:34 AM |
| 5 | I want to become a prosthetics engineer | 5/9/2022 10:57 AM |
| 6 | I want to get a bachelor's in mechanical engineering and then begin my career as an engineer | 5/5/2022 9:44 AM |
| 7 | Masters, software developer | 5/4/2022 10:31 PM |
| 8 | to help students move forward in their chosen path. | 5/3/2022 10:06 PM |
| 9 | Work in energy, sustainable energy to be precise. Help reduce our carbon footprint and global warming. | 5/3/2022 7:50 PM |
| 10 | Transfer to a 4 year uni, and then get a doctorate in the STEM field | 5/3/2022 5:24 PM |
| 11 | Mechanical Engineer | 5/3/2022 3:37 PM |
| 12 | Aerospace Engineer | 5/3/2022 2:33 PM |
| 13 | I'm currently looking at employment as an aerodynamics engineer | 5/3/2022 2:31 PM |
| 14 | Become a software engineer. | 5/3/2022 1:32 PM |