

Improve lighting on campus

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Abstract

Introduction: Despite the amazing campus that UBC has, the limited amount of outdoor lighting has caused some safety issues. That is, some areas on campus are considered too dark which may affect the safety of students. For example, drivers would not be able to see students crossing the street and especially during the Winter session as the sky gets dark early. Therefore, the best option to resolve this issue is to install more streetlights on campus.

Data Collection: In order to collect data, a 9 question survey will be given to student through UBC Discord servers. Student are to answer three personal questions and six question regarding their preferences on streetlights on UBC campus.

Findings: The majority of students who filled out the survey are in their third and fourth year of standing and most are majored in Arts. Moreover, a majority of students who filled out the survey are female and it seems that students are neutral toward each question. However, 80% of students agree that UBC campus is dark

Recommendation: Having to install more streetlights keeps students safe and brighten up the campus so people could see clearly. Alternatively, changing the voltage of light bulb will also do the work.

Introduction

Having efficient lighting is highly crucial to the safety of students, faculty, staff and residents within a large university campus like UBC. Moreover, to ensure the safety and security of students, staff, and visitors during nighttime activities, adequate lighting must be provided with insufficient coverage and brightness levels(Yong et al,3). In addition, because the UBC is considered a tourist attraction and a home populated with students, the sense of safety must be acknowledged.

Background of problem

Built on the traditional land of the Musqueam People in 1908, UBC is truly a large and beautiful campus to visit and walk around. The campus surrounds the ocean, and the various trees, grasses and squirrels that reside on our campus, make UBC beautiful. However, as great as UBC can be, there are still setbacks within the UBC

campus and that is the limited amount of streetlamps in some areas of the campus.

In other words, some areas on campus are considered extremely dark at night.

Figure 1



Description of Problem

Indeed, UBC is a beautiful place to study as well as a lovely place to visit. Despite many trees and limited streetlights, walking to class at night can be intimidating at times, especially during the

winter session when the day quickly turns black. Furthermore, it can also be very unsafe, especially for female students. As a matter of fact, I sometimes feel uneasy walking from Irving. K, Barber to the Aquatic Center Figure 2

despite the short distance because it was quite dark. Moreover, the



lack of streetlights along NW Marine Drive near Wreck Beach had made walking at night dangerous. In fact, there were accidents that had happened one of which happened last year where two students got hit by a car hit and died (CBC News). In addition, because some areas of campus are not brightly lit, criminal activities are likely. This is because people tend to focus on areas which are dark, isolated and unprotected to commit these acts (Yong et al,13).

Purpose and methods

The purpose of this report is to discuss students' points of view regarding safety on campus and ask UBC Director of Planning: Development Services Grant Miller to install more streetlights or intensify the lights on campus grounds. The methods of collecting data are primarily from a questionnaire filled out by students online through Google Forms. The survey will then be posted on UBC Discord for students to fill out.

Scope of this inquiry

The report will focus on five inquiry questions: (1) Do students feel safe walking on campus? (2) Should we have more streetlights installed? (3) Do students think the campus is too dark? (4) how far apart are they between classes (analysis on how long they will walk if it gets late) and (5) What type of classes do they prefer? (morning or late classes). The report will conclude with a set of recommendations that will brighten up the campus for the safety of UBC students, faculty, staff and visitors. More specifically, in which locations on campus do we need the most lights.

Data Collection

Methods

Whether to install more lights on campus is a big decision and it needs to be approved by the people in charge of on-campus operations, it also needs to consider the thoughts

of students, faculty and staff. In order to figure out how people think about installing more lights, a survey would be the best option. Students are to fill out a survey with a total of 8 questions. The first three questions are based on personal information and the other five are based on individual preferences about improving lighting on campus.

Participants and analysis

The analysis will be based on a student's answer to the following questions:

1. I feel safe walking at night on campus
2. I think the campus is too dark at night
3. I think UBC should add more Streetlights
4. I take night classes,
5. My classes last until dark?
6. I think the distance between my classes is far/close

As well as the participants' year of study, degree, and gender from people who filled out the survey. This will allow me to know who filled out the form, and

Conclusion

Findings

The findings are quite interesting. I did not realize that there are students who care about this kind of issue. Also, I get to see that each student has their own perspectives regarding this issue, which I find it quite fascinating.

Year of study

18 responses

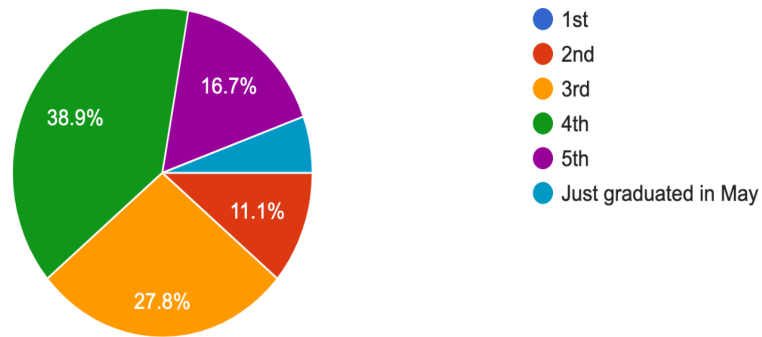


Figure 3

Degree

18 responses

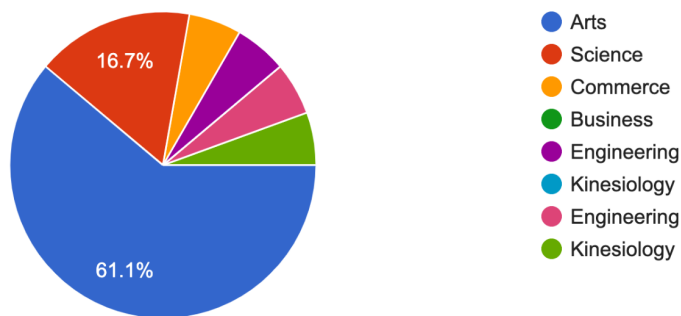


Figure 4

Gender

18 responses

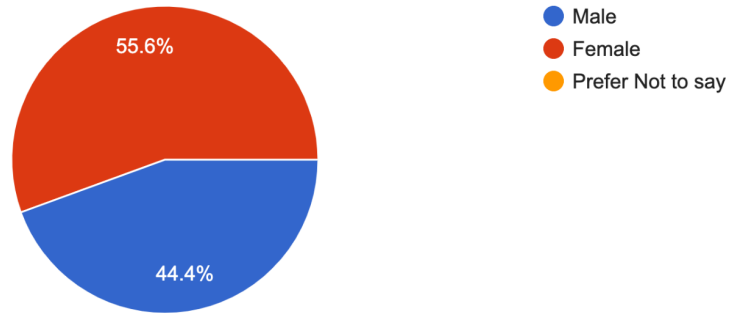


Figure 5

I feel safe walking at night on campus?

18 responses

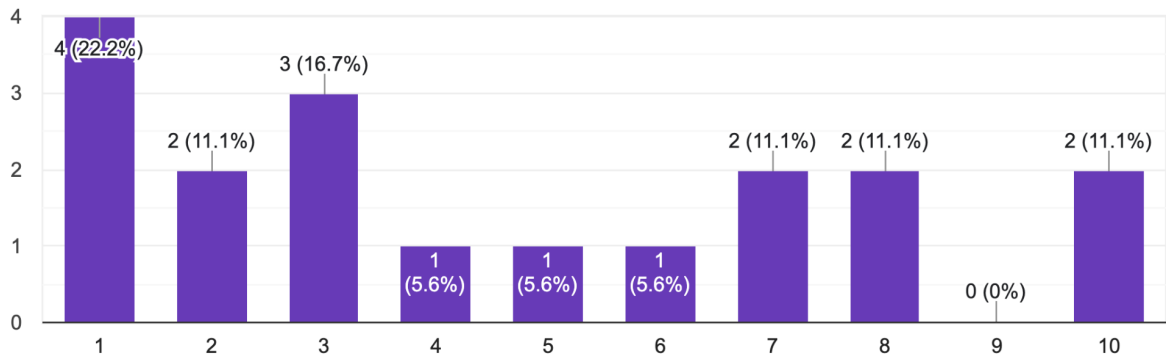


Figure 6

I think some parts of campus is too dark at night?

18 responses

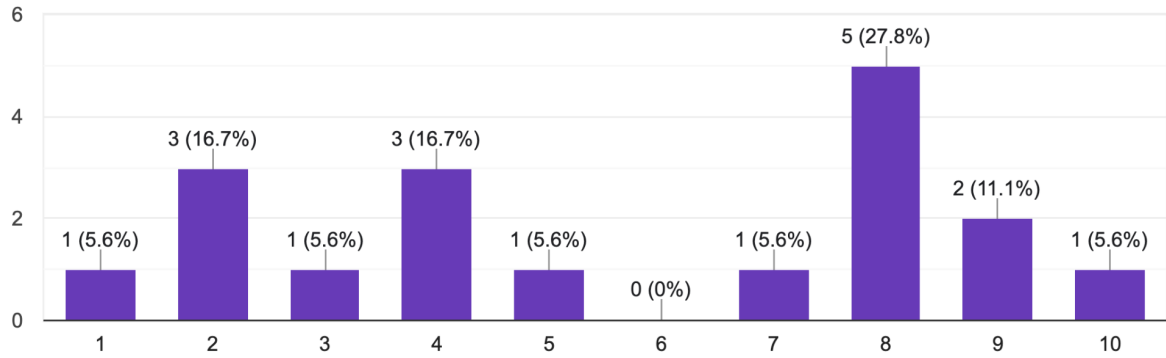


Figure 7

I think UBC should add more Streetlights

18 responses

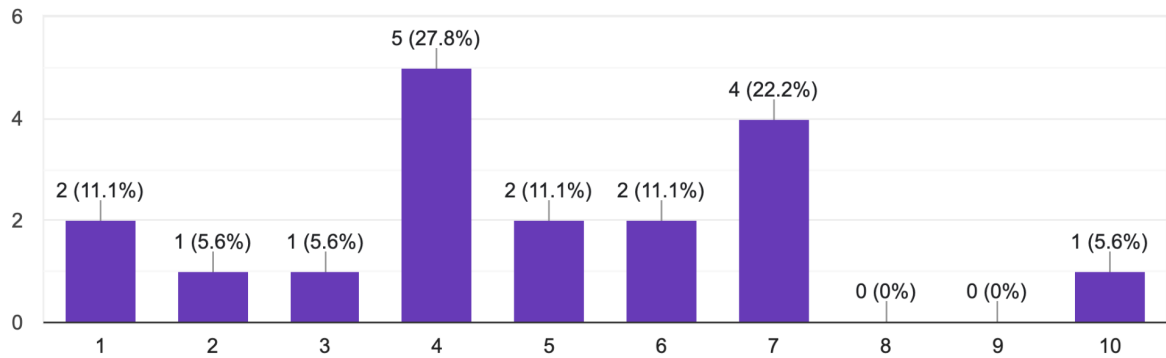


Figure 8

My classes lasts until dark?

18 responses

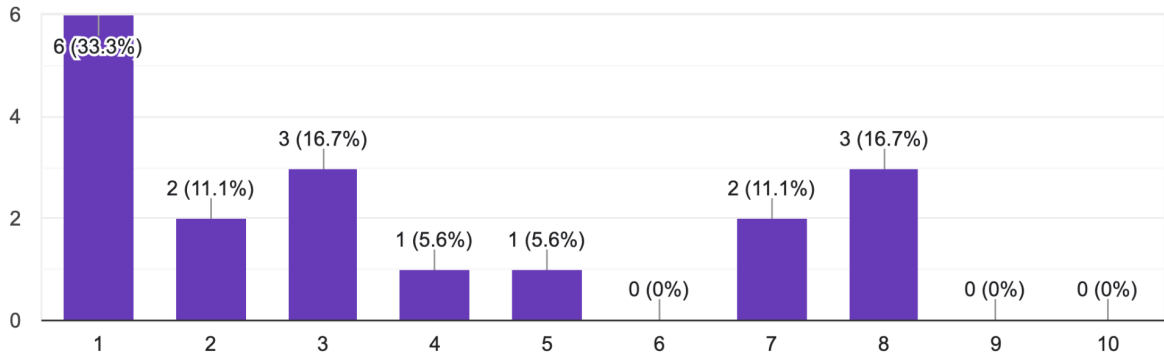


Figure 9

I think the distance of my classes are far/close

18 responses

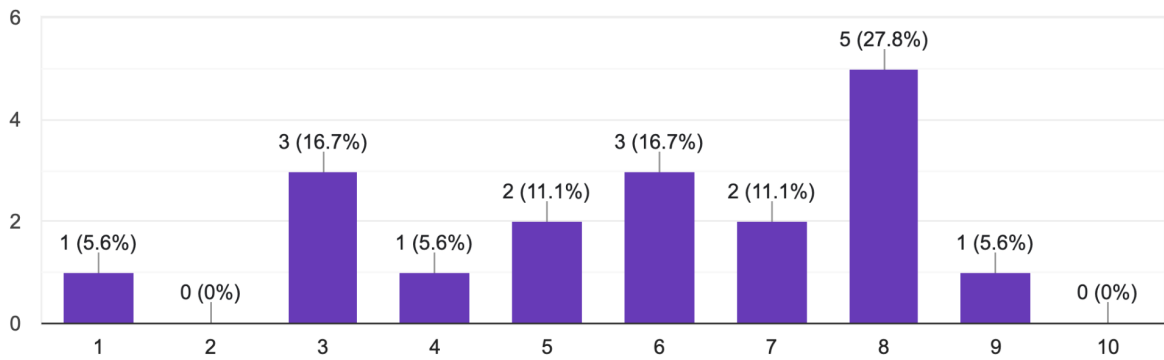


Figure 10

Based on this, we see that the majority of people who have filled out my survey tend to be students from their upper level of studies more specifically, students in 3rd at 28%, 4th (38.9%), and 5th year (16.7%) standing. Whereas, there are very few lower-year standing students who filled out the survey; that is, there are very few 1st (0%) and 2nd-year (11.1%) students who filled out the survey and there are also three students who are in their 5th year and two who had just graduated who fill out the survey. The graph above shows that the majority of students who filled out the survey majored in Arts 61% and 16% of students who majored in Science. Whereas, two majored in Kinesiology two majored in Engineering one majored in Commerce and no one majored in Business.

Moreover, it looks like, there are more females than males who filled out the survey. This is what I was expecting because I believe females are at risk of assault and kidnapping or rape in some areas. Especially areas with very few people, like where the bushes are. Of course, this rarely happens because UBC is quite safe, but there is a possibility. Upon further analysis on the linear scale, it looks like most students who filled out the survey are neutral about the installment of streetlights on campus. In addition, despite the campus being dark at night, every student declared that they feel safe walking on campus at night. However, the majority of students do agree that the campus is too dark at night.

Recommendations

All in all, the best solution to this is to install more streetlights on the campus grounds. Having more streetlights on campus allows students, faculty and staff to see better at night. Most importantly, it will make drivers see better and thus, safe for both pedestrians and drivers themselves. For example, there should be street lights near the UBC Aquatic center and IKB. In addition, lights should also be installed between the club and the Aquatic Center. Most importantly, there should be more streetlights on the road heading to UBC(the road where the trees are). That is, there should be more streetlights around Marine Drive and the road near Wreck Beach for the safety of students.

If installments are not possible, an alternative option is to change the light bulb voltage higher for the lamps on campus. Not only will changing the light bulb voltage brighten up a specific area on campus but also, it will give UBC an upgrade. Most importantly, it will make the UBC campus safer for students. Therefore, it would be great to add more streetlights in some areas or improve the light bulb voltage for the lamps.

Work Citation

CBC News. "2 UBC Students Dead after Vehicle Veers onto Campus Sidewalk"
[Vancouver, BC]. *CBC News*, 26 Sept. 2021,
www.cbc.ca/news/canada/british-columbia/ubc-students-killed-struck-vehicle-1.6190255.

Khalid, Mustafa, Melissa Yong, and Tingli Lin. "UBC Campus Outdoor Lighting :
Challenges and Opportunities." R. N.p., 25 Mar. 2016. Web. 11 July 2022.
<https://open.library.ubc.ca/collections/graduateresearch/66428/items/1.0343186>
UBC Social Ecological Economic Development Studies (SEEDS) Student
Reports (Graduate).

"QS World University Rankings 2022." *Top Universities*, QS World University
Rankings, 8 June 2022,
www.topuniversities.com/university-rankings/world-university-rankings/2022.