**What Determines Involvement at Carnegie Mellon?**

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***A. Why is this topic interesting? Is there a client for whom you might do the survey?***

Carnegie Mellon is not known for its school spirit. In particular, we have noticed low attendance at sporting events and the creation of the Tartan Rewards Program, which aims to increase attendance at Carnegie Mellon events. Understanding how groups form on campus can be used to unify the student body and improve attendance at school events. CMU sports teams and clubs and the Tartan Rewards Program could be possible clients of this survey because the information could improve their attendance rates. This study needs to be done now to benefit incoming classes of students and attract more students to come to Carnegie Mellon. We are going to

***B. What question(s) do you propose to study?***

Our survey would ask questions about the student’s current involvement on campus. Questions would include which factors student’s find most influential in choosing groups to participate in:

* Friends involved
* Advertising
* Major
* Past participation
* Career goals
* Dorm activities
* What main mode of contact do you use for involvement (email, facebook, text, call, in person)
* Do you live on or off campus? Have a car?
* Nationality/International Status?

We would also ask about a student’s grade level, hometown and gender to see if these are confounding variables. We can do additional research into the size of students’ virtual social networks versus “real” social networks. How do you mainly interact with others: classes, clubs, social life, office hours/study groups, other?

***K. Sampling Scheme***

Undergraduate Students in randomly sampled classes. We will use a SRS without replacement sampling scheme in order to conduct our survey. We will randomly select classes from this website: < <https://enr-apps.as.cmu.edu/open/SOC/web/images/documents.htm>> through a random number generator in R. We will email the respective professors for permission to come in and administer the survey (hopefully at the end of class, so as not to disrupt the lecture). Once we gain permission, we will be conducting self-administered pen-and-paper questionnaires that the students can take.

We decided on SRS without replacement because we would like to give equal chances to all the undergraduate classes (minus the graduate classes). Since our target population is Carnegie Mellon Undergraduates, it would be best to not stratify and give all the undergraduates an equal chance. We chose to do SRS without replacement since once we choose a class for our sample we are not replacing the chosen class back into our random number generator.

***L. Questions***

What year were you born?

What is/are your major(s)? Any minor(s)?

What is your gender?

What is your ethnicity/race?

Where is your permanent residence? Is it a suburb/urban/rural area?

Are you currently living off campus/on campus? (address)

-Do you have a roommate?

What is your childhood household size? (childhood=age 0-12)

Are you currently employed?

-On campus/off campus?

-How many hours a week do you work?

Are you currently involved in a campus organization? (athletics, greek life, clubs)

How often do you communicate with others through these modes:

-Facebook

-Twitter

-Email

-Cellphone

-Gchat

-AIM

-Skype

Do you currently have a social networking account? If so, in which website(s)?

How many athletic events have you attended since the beginning of the school year? (range)

How many Greek events have you attended since the beginning of the school year? (range)

How likely are you to go to a campus event if publicized through email? (likert scale)

How likely are you to go to a campus event if publicized through flyers? (likert scale)

How likely are you to go to a campus event if publicized through WOM? (likert scale)

How likely are you willing to go to a campus event if publicized through social networking sites? (likert scale)

Where do you prefer to study? Alone or with a group?

What percentage of your friends is in the same major as you? (range)

-With this set of friends, do you primarily do schoolwork or activities not related to school? Or both? (this could be changed, the wording is off)

When you do attend campus events, do you go alone or with a group of friends?

How did you meet your closest friends?

-Dorm

-Campus events

-Classes

-Parties

How many days per week do you go out to socialize (excluding schoolwork)? (range)

***M. Sample Size***

We assumed that there 5,705 CMU undergraduates on campus this year (which was given to us in lecture). We decided on a 40% response rate (to oversample) and 5% margin of error (p).

Standard Deviation = = 0.49

N0 = = 368.8 = 369

N0 = Sample size for SRS with replacement

BUT since we’re conducting SRS without replacement:

N ≥ = 346.6 = 347

N = Sample size for SRS without replacement

Since we assumed 40% response rate, we believe that this is a good sample size. However, if our actual response rate is different from our hypothetical one, then we will adjust our sample size to reflect that.

We are assuming that there are at least 20 students per class at CMU. There may be lectures that we may be sampling, but there also may be classes where there are less than 10 students. So, with that low average, we are randomly choosing 18 classes. If we see that that is not the case, we will adjust the number of classes accordingly. The 18 classes that we chose randomly through a random number generator are given in a different document.