

Carnegie Mellon University

Dining Services Survey

By: Qiaona Yu, Tianjiao Qi, Jisu Jennifer Kim, Sally Cheung, and Heewon Chi

Spring 2010

A./B. Why is this topic interesting?/ What question do you propose to study?

Dining has always been a hot topic at Carnegie Mellon University (CMU). Even though many changes have already taken place last year, improving the quality and the selection of foods, we would like to once again investigate to see how satisfied students who are on the meal block system now are with the current dining options. We have spoken to a representative from the student senate and they are still constantly looking for updates to see how satisfied students are with the dining system, therefore one potential client of our survey would be to conduct a study to see the student satisfaction of the dining system and pass these results to the student senate for potential changes to take place. Carnegie Mellon requires first year students to be on a meal plan, so these changes would be highly relevant for years to come. Being able to constantly improve dining services on our campus can motivate students to eat at certain dining places more. Also, although new additions have been made, are people aware of such changes and how do they feel of these changes? We would like to focus mainly on Freshmen who are on the meal plan because they are the ones who are most familiar with the dining places at school. Through this survey, we hope to find answers to questions such as places that students like the most and least and why and possibly how the places could continue to improve.

C. What research has already been done on the topic or on the theoretical construct of central importance to your topic?

Reference 1: New dining options bring new vendor, changes to meal plans

<http://www.thetartan.org/2009/8/24/news/food>

This article was published on August 24, 2009, just after the start of a brand new school year. Its aimed at showing the major changes that have taken place on campus to make our dining system much more attractive. It explains the new caterer CulinArt, upgrades in the UC and the Resnik Café, and provides some student feedback on the quality and variety of school food.

Students saw the variety and therefore were interested, but what we would like to potentially look into is how these changes played out the past half a year. Are these changes the changes that students want to see or are they merely what the school hopes to change?

Reference 2: Student government's reasons for change

<http://stugov.andrew.cmu.edu/executive/projects/2008-2009/student-government-task-force-dining-proposalvfinal.pdf>

This report was proposed before the changes took place. It provides reasons for why they wanted to change the dining system at CMU. It also gives insight into what we have and what we are missing as a school as compared to other campuses.

This is a useful report for our study in that we are able to see what has already been done and assess whether or not students see the changes they wished to see.

Reference 3: University of Pittsburgh Dining Services brochure

<http://www.pc.pitt.edu/downloads/dining/Dining%20Services%20Brochure%20&%20Insert%202009-10.pdf>

This is a brochure of University of Pittsburgh Dining Services. It would be interesting to compare their variety of menu and vendors with those of CMU.

Reference 4: College Decisions and Food Services

http://www.nacufs.org/files/public/pdf/technomic_surveys/nacufs_feb10.pdf

This article is from the National Association of College & University Food Services (NACUFS) website. It presents a survey result that states 21% of prospective college students strongly considered the school's dining program and amenities during their decisions on where to enroll. Another interesting result was that, among all ethnicities, Asian students (32%) were most impacted by campus dining program while

making decisions on enrollment. The article also consists of data on the attributes considered when choosing a campus dining, which may be interesting to compare with those of CMU.

Reference 5: Winners of Campus Dining Awards

<http://www.nacufs.org/i4a/pages/Index.cfm?pageid=3368>

This article is from the National Association of College & University Food Services (NACUFS) website. It lists the past winners of campus dining awards. The categories vary from Most Innovative Nutrition Program to Vegan Recipe Contest and so on. This shows how colleges are enthusiastic about achieving high standards in dining services.

D. What population or populations will be sampled?

The sampling frame is CMU Freshmen who are registered at the HUB as a full-time student and bought the Meal Plan this semester. We will try to get these students' email addresses from HUB, and randomly sample from this frame. Alternatively, we can use the list in C-Book and first ask whether they are on the meal plan, with no further question if one says no. This sampling frame is a subset of the target population, because some students on the Meal Plan might be part-time, or might not have a valid email address at HUB. Since part of our target population is not in the sampled population, there might be some non-sampling errors. Also, if the response rate is low and the sample size is small, there might be some sampling errors.

E. What population(s) do you wish to make inferences about? How does it differ from the population in (d)?

The target population is CMU freshmen who are on the Meal Plan. The sampled population will be a subset of the target population due to cases such as part-time students. There will not be significant biases due to the difference. However, we will make sure to identify if anything is observed.

F. How do you plan to carry out the survey (e.g. by telephone) and why?

For our mode of data collection, we choose GoogleDoc via email. We will collect a list of email addresses for the freshmen students who are on the Meal Plan from C-Book and send them the link to GoogleDoc form, which is an efficient mode of collecting data. Once the students receive the emails, they can go to the link and respond. If we encounter low response rate, we send one or two additional reminder emails and add a little notice on how their response can be helpful for the campus dining system so that the students can know its importance.

G. What variables do you propose to measure?

We want to obtain insight into the reasons for which people choose to dine at certain locations and what is important to student when it comes to food. Below are the variables we want to measure:

- a. Is there a relationship between what your major is and where you eat?
This might be interesting if certain majors/departments are located in certain places and therefore we want to see if there is a relationship between where certain departments are located and the food vendors there
- b. Is there a relationship between ethnicity and where you eat?
Certain people want certain foods, is this the case for people who are on the meal plan?
- c. Where you live and where you eat?
Certain dorms have dining services located there, does this become a reason why students eat at those places? Or is it not a reason?
- d. Healthier/organic choices

Do people want healthier choices and organic choices? Does this affect where they eat and what they choose?

e. What do you like/dislike about the dining services at school

This provides an idea of what is actually good at CMU and what could possibly be improved or addressed in the future to better suit students and their tastes in food

f. Satisfaction of food?

What are students satisfied with and how does satisfaction in certain areas such as menu, staff friendliness, speed etc affect where students choose to eat on campus?

g. Most liked/ most disliked vendors?

Where do students like to eat? Are there changes that need to be made to other place sand what replacements should there be?

Above are the variables that we would like to investigate and through our survey questions we hope to gain insight into student's perspectives on CMU dining services and how satisfied they are with the current dining facilities. We also would like to know if reasonable changes could be made, what would these changes be?

H. Final Survey Topic

Our final survey topic chosen is the CMU Dining Services Survey.

I. IRB Form

Please see Appendix III.

J. How do you plan to protect the privacy and assure the confidentiality of respondents?

Individual respondents' identities will not be disclosed to anyone. Respondents' names will not be recorded, only Andrew IDs will be recorded for emailing purposes. All respondents will be given the official CMU online consent form before the survey; all respondents will only complete our survey after they have read and confirmed that they have read the consent form. Respondents' answers and responses will be available for public view; however, the Andrew IDs of the respondents will be removed prior to the disclosure of our data.

K. Decide on a sampling scheme

In our survey, there are approximately 10,000 listings in C-Book, and we use simple random sampling. Since we are exploring the freshmen satisfaction with CMU dining, we can approach this survey more accurately by utilizing SRS. In our case, sampling without replacement is an appropriate and easy to conduct random sampling, because as each person is sampled, he or she should be crossed off to avoid overlapping samples.

These are reasons to include random sampling in our survey:

-The student listing in C-Book 2009-2010 includes approximately 10,000 students in total, approximately 1400 freshmen.

-The students' names on each page are all mixed together in each page of the C-Book

We will generate and repeat the following steps below.

First we will find which page number the listing starts and ends. By indexing each page, we can randomly select a page per iteration. To do this, we will use a random number generator (<http://www.random.org>).

Second, we will estimate the maximum number of items per page and index each one. By indexing each items per page, we can randomly select an item's index after selecting a page. By repeating this, we will gather a desired size of random sample pairs-- e.g. (page1, index1) (page2, index2),...(page400, index400)

For each pair in the list:

-Go to the list of students in C-Book. If there is the name of Freshmen there, and he or she isn't crossed off then add him/her to your sample, we will cross him/her out in C-Book. Then start over with the next subject in the list.

-If we encounter an ineligible coverage such as already chosen person or a graduate student, we will throw away that whole subject and continue with the next student in the list.

We will repeat this until we have enough random freshmen samples.

L: Sample questionnaire

1. Gender:

- Male
 Female

2. What Carnegie Mellon Meal Plan are you currently on? Check all that apply

- Meal Blocks
 DineX
 Plaid Cash (primarily for food).

3. What college are you in?

- Tepper School of Business
 Humanities and Social Sciences
 College of Fine Arts
 Carnegie Institute of Technology
 Mellon College of Science
 School of Computer Science

4. Do you live in school housing?

- Yes
 No

5. If yes, where?

- Boss House
 Doherty apartments
 Donner house
 Fairfax Apartments
 Hamerschlag house
 Henderson house
 London terrace house
 Margaret Morrison Apartments
 McGill house
 Morewood Gardens

- Morewood E-tower
- Mudge house
- Neville Apartments
- Stever house
- Resnik House
- Roselawn house
- Scobell house
- Shady oak apartments
- Shirley apartments
- Spirit house
- tech house
- Veronica apartments
- Webster Hall
- Welch House
- west wing
- Woodlawn apartments
- Other

6. What is your nationality/ethnicity?

- American Indian or Alaska Native
- Asian
- Black or African American
- Hispanic or Latino
- Native Hawaiian or Other Pacific Islander
- White
- I prefer not to answer.
- other:

7. I regularly have... on campus. (check all that apply)

- a) Breakfast
- b) Lunch
- c) Brunch
- d) Mid-morning/mid-afternoon snacks
- e) Dinner
- f) Late-night

8. How often do you dine at one of the on-campus food vendors? (choose one)

- a) At least once every day of the week, including weekends
- b) At least once every day, but just weekdays
- c) Less than 5 times a week
- d) Never, I only go to Entropy

9. How satisfied, in general, were you with your meals/snacks?

- a) Very satisfied
- b) Satisfied
- c) Neutral
- d) Unsatisfied
- e) Very unsatisfied

10. How would you rate the CMU dining services when it comes to:

	Very Poor	Poor	Neutral	Good	Very Good
The food and drinks offered suit my taste/needs					
The menu variety					
Prices in general					
The quality of the food					
Healthy choice options					
The waiting time					
Cleanliness					
Staff friendliness					
Availability/Hours of Operation					

11. Which vendors do you like the most, for meals? Choose up to 3.

Asiana (Newell-Simon Hall)	
Carnegie Mellon Café (Resnik House)	
City Grill (University Center)	
Downtown Deli (University Center)	
Entropy (University Center)	
Evgestos! (University Center)	
The Exchange/Ginger's (Tepper)	
Ginger's Express (Baker)	
Kosher Korner (University Center)	
La Prima (Wean)	
The Maggie Murph Café (Hunt Library)	
Mitchell's Mainstreet Market (Newell-Simon Hall)	
Quik Piks (University Center)	
Schatz (University Center)	
Si Senor (University Center)	
Skibo Coffeehouse (University Center)	
Souper Soups (University Center)	
Spice it up Grill (Resnik House)	
Spinning Salads (University Center)	
Stephanie's (Mellon Institute)	
Stir Crazy (University Center)	
Sushi Too (Resnik House)	
Take Comfort (Resnik House)	
Tartan's Pavilion (Resnik House)	
Taste of India (Resnik House)	
Tazza D'oro (Gates Hillman Center)	
Totally Juiced (University Center)	
The Underground (Morewood)	
The Zebra Lounge (CFA)	
AVI Vending (Wean/multiple locations)	

12. Why do you like these vendors? (choose up to 2)

- a) The food tastes good.
- b) It's fast.
- c) It's convenient location wise.
- d) It has a lot of options.

- e) It's healthy.
- f) The staff are friendly.
- g) The dining environment is good.
- h) They are always open.
- i) They are cheap/reasonably priced.

13. Which vendors do you like the least, for meals? choose up to 3.

Asiana (Newell-Simon Hall)	
Carnegie Mellon Café (Resnik House)	
City Grill (University Center)	
Downtown Deli (University Center)	
Entropy (University Center)	
Evgestos! (University Center)	
The Exchange/Ginger's (Tepper)	
Ginger's Express (Baker)	
Kosher Korner (University Center)	
La Prima (Wean)	
The Maggie Murph Café (Hunt Library)	
Mitchell's Mainstreet Market (Newell-Simon Hall)	
Quik Piks (University Center)	
Schatz (University Center)	
Si Senor (University Center)	
Skibo Coffeehouse (University Center)	
Souper Soups (University Center)	
Spice it up Grill (Resnik House)	
Spinning Salads (University Center)	
Stephanie's (Mellon Institute)	
Stir Crazy (University Center)	
Sushi Too (Resnik House)	
Take Comfort (Resnik House)	
Tartan's Pavilion (Resnik House)	
Taste of India (Resnik House)	
Tazza D'oro (Gates Hillman Center)	
Totally Juiced (University Center)	
The Underground (Morewood)	
The Zebra Lounge (CFA)	
AVI Vending (Wean/multiple locations)	

14. Why do you dislike these vendors?

- a) The food tastes bad.
- b) It takes me a long time to get my food.
- c) Not enough options.
- d) It's in a bad location; I never go to some of those locations.
- e) It's not healthy.
- f) The staff are unfriendly.
- g) The dining environment is not good.
- h) They are expensive.
- i) They are never open when I want food.

15. Which of these dining services would you like to see at CMU?
- Independent vendors, i.e. McDonald's, KFC, Chipotle, Wendy's, etc.
 - A cafeteria, buffet style, in most resident halls.
 - It's good the way it is.
 - Other:
16. How important is it to you that school vendors provide healthy options?
- Very Important
 - Important
 - Neutral
 - Not too important
 - Not Important at all.
17. How important is it to you that school vendors provide organic options?
- Very Important
 - Important
 - Neutral
 - Not
18. Would you like to see nutritional info and calorie counts on the menu boards?
- Yes
 - No
19. If you can add one type of food to the CMU dining service's menu, what would it be?
OPEN ENDED

M. Sample Size Calculations

In our survey, there are 1400 freshmen students who are on the meal plan and listed in C-Book, so our population $N=1400$. We calculate below the sample sizes for 3%, 5% and 8% margin of error for a 95% CI.

$ME = 0.03$

We first calculate the SRS with replacement sample size.

$$n_0 \geq \frac{(Z)^2(SD)^2}{(ME)^2} = \frac{(1.96)^2(0.5)^2}{(0.03)^2} = 1067.11$$

(where we take $SD = 0.5$ as a worst case), and then apply the correction for SRS without replacement.

$$n \geq \frac{Nn_0}{N + n_0} = \frac{(1400)(1067.11)}{1400 + 1067.11} = 605.54$$

Similarly,

$ME = 0.05$

$$n_0 \geq \frac{(Z)^2(SD)^2}{(ME)^2} = \frac{(1.96)^2(0.5)^2}{(0.05)^2} = 384.16$$

$$n \geq \frac{Nn_0}{N + n_0} = \frac{(1400)(384.16)}{1400 + 384.16} = 301.44$$

$$\underline{ME = 0.08}$$

$$n_0 \geq \frac{(Z)^2(SD)^2}{(ME)^2} = \frac{(1.96)^2(0.5)^2}{(0.08)^2} = 150.06$$

$$n \geq \frac{Nn_0}{N + n_0} = \frac{(1400)(150.06)}{1400 + 150.06} = 135.53$$

Now, we take into account the response rate, which is approximately 25%.

$$\underline{ME = 0.03}$$

$$\frac{n}{0.25} = \frac{605.54}{0.25} = 2422.16$$

$$\underline{ME = 0.05}$$

$$\frac{n}{0.25} = \frac{301.44}{0.25} = 1205.76$$

$$\underline{ME = 0.08}$$

$$\frac{n}{0.25} = \frac{135.53}{0.25} = 542.12$$

Given the results above, it seems that a sample size of 542.12 is the most reasonable one. We would get a marginal error of 8% if the response rate is 25%.

Appendix I. Email draft, followup email

FIRST EMAIL SUBJECT LINE: You are what you eat!

Dear PARTICIPANT,

this is great. you should probably add that the person was randomly as part of a random sample (of freshmen?).

If you care about what you eat on campus every day, then you should take this short survey for a student project! We are evaluating student satisfaction with the current dining services at CMU, and your results will be very valuable to us for suggesting improvements to Housing and Dining Services that will benefit YOU!

Here is the link to our survey:

<https://spreadsheets.google.com/viewform?formkey=dHFfTURMc0psaFg5a08telFFcnFLa2c6MA>

Please take a few minutes to fill out this survey!! The more responses we get, the more opinions we'll be able to voice! Thank you very much for your participation!

Sincerely,

Tianjiao Qi
Sally Cheung
Jisu Kim
Jenny Chi
Joyner Qiaona Yu

FOLLOWUP EMAIL:

Dear PARTICIPANT,

We've noticed that you have not filled out our dining service survey! It would be greatly appreciated if you could take our survey before DATE, so that we can let the Dining Services know what YOU think!

It will only take a few minutes to fill out this survey, so please please take a moment to do this!

Here's the link:

<https://spreadsheets.google.com/viewform?formkey=dHFftURMc0psaFg5a08telFFcnFLa2c6MA>

Thank you for your participation!

Sincerely,

Tianjiao Qi
Sally Cheung
Jisu Kim
Jenny Chi
Joyner Qiaona Yu

Appendix II. Consent Form

Carnegie Mellon University Version 8/ 2009

Online Consent

This survey is part of a research study conducted by Joyner Yu at Carnegie Mellon University.

The purpose of the research is to assess CMU's current dining system. Even though many changes have already taken place in the past year improving the quality and the selection of foods, we would like to conduct a survey to investigate how satisfied students who are on the meal block system now are with the current dining options. What changes do students still want to see in the current dining system and what do students like about the current dining system. Being able to constantly improve dining services on campus can motivate students to eat at certain places more often.

Procedures

Participants will be contacted through Andrew Mail and an external survey link will be provided. Participants should click on the link and will be redirected to googledocs. This survey consists of 28 questions and should take no more than 15 minutes in total.

Participant Requirements

Participation in this study is limited to individuals age 18 and older.

Risks

The risks and discomfort associated with participation in this study are no greater than those ordinarily encountered in daily life or during other online activities.

Benefits

There may be no personal benefit from your participation in the study but the knowledge received may be of value to humanity. Suggestions are highly recommended as our assessments will be handed out to the Dining Services of CMU and improvements could be made accordingly to improve the overall Dining Services of Carnegie Mellon University.

Compensation & Costs

There is no compensation for participation in this study. There will be no cost to you if you participate in this study.

Confidentiality

By participating in this research, you understand and agree that Carnegie Mellon may be required to disclose your consent form, data and other personally identifiable information as required by law, regulation, subpoena or court order. Otherwise, your confidentiality will be maintained in the following manner:

Your data and consent form will be kept separate. Your consent form will be stored in a locked location on Carnegie Mellon property and will not be disclosed to third parties. By participating, you understand and agree that the data and information gathered during this study may be used by Carnegie Mellon and published and/or disclosed by Carnegie Mellon to others outside of Carnegie Mellon. However, your name, address, contact information and other direct personal identifiers in your consent form will not be mentioned in any such publication or dissemination of the research data and/or results by Carnegie Mellon.

Right to Ask Questions & Contact Information

If you have any questions about this study, you should feel free to ask them by contacting the Principal Investigator now at 917-459-6816, and address: SMC 5246, 5032 Forbes Ave, Pittsburgh, PA 15213. If you have questions later, desire additional information, or wish to withdraw your participation please contact the Principle Investigator by mail, phone or e-mail in accordance with the contact information listed above.

If you have questions pertaining to your rights as a research participant; or to report objections to this study, you should contact the **Research Regulatory Compliance Office at Carnegie Mellon University. Email: irb-review@andrew.cmu.edu . Phone: 412-268-1901 or 412-268-5460.**

The Carnegie Mellon University Institutional Review Board (IRB) has approved the use of human participants for this study.

have them contact me instead of the compliance office or irb board.

Voluntary Participation

Your participation in this research is voluntary. You may discontinue participation at any time during the research activity.

I am age 18 or older. Yes No

I have read and understand the information above. Yes No

I want to participate in this research and continue with the survey Yes No

Appendix III. IRB Form

For IRB Office Use
IRB No: _____
Rec'd: _____

APPLICATION FOR IRB REVIEW OF RESEARCH INVOLVING HUMAN SUBJECTS

(Not for exempt research)

Please complete this application as thoroughly as possible. Your application should include the following:

1. A consent form using the current CMU template that the participants and/or parent/guardian will be required to sign.
2. A copy of any questionnaires, surveys, images, de-briefings that will be used.
3. A copy of any recruitment documents (including advertisements, flyers, letters, invitations, email) to be used;
4. A copy of the training certificates for all individuals working on the research unless they are on file with the CMU IRB. Training is available at: <http://phrp.nihtraining.com/users/login.php>
5. If the PI is a student, the faculty advisor must submit a Faculty Advisor Assurance Form.

Please email all documents to irb-review@andrew.cmu.edu. For assistance call CMU Research Compliance @ 412-268-5460 or email irb-review@andrew.cmu.edu. Additional information and templates are available at <http://www.cmu.edu/osp/regulatory-compliance/human-subjects.html>

1. Protocol			
Title: Dining Services Survey			
<input type="checkbox"/> This is a previously approved study that has lapsed.		Previous IRB No: HS	
2. Principal Investigator (PI)			
Name: Qiaona Yu		Department: Statistics	
Telephone: 9174596816	E-mail: qyu@andrew.cmu.edu	Training Cert. <input type="checkbox"/> Attached <input type="checkbox"/> On File	
<input checked="" type="checkbox"/> I am a student. If so, please provide information about your faculty advisor below.			
Faculty Advisor Name: Brian Junker		E-mail: brian@stat.cmu.edu	
		Training Cert. <input type="checkbox"/> Attached <input type="checkbox"/> On File	
<i>If a student is the PI, the faculty advisor must complete and submit a Faculty Advisor Assurance Form.</i>			
If there is someone other than PI to correspond with regarding this protocol, please list below.			
Contact Person Name:		Telephone:	E-mail:
Business Manager for your department:		E-mail:	
3. Co-investigators			
Name: Qiaona Yu		E-mail: qyu@andrew.cmu.edu	
		Training Cert. <input type="checkbox"/> Attached <input type="checkbox"/> On File	
Name: Jisu Jennifer Kim		E-mail: jisuk@andrew.cmu.edu	
		Training Cert. <input type="checkbox"/> Attached <input type="checkbox"/> On File	
Name: Sally Cheung		E-mail: sscheung@andrew.cmu.edu	
		Training Cert. <input type="checkbox"/> Attached <input type="checkbox"/> On File	
Name: Heewon Chi		E-mail: hchi@andrew.cmu.edu	
		Training Cert. <input type="checkbox"/> Attached <input type="checkbox"/> On File	
Name: Tianjiao Qi		E-mail: tqi@andrew.cmu.edu	
		Training Cert. <input type="checkbox"/> Attached <input type="checkbox"/> On File	
Name:		E-mail:	
		Training Cert. <input type="checkbox"/> Attached <input type="checkbox"/> On File	
Name:		E-mail:	
		Training Cert. <input type="checkbox"/> Attached <input type="checkbox"/> On File	
4. Funding			
<input checked="" type="checkbox"/> Unfunded research		Sponsor/Source:	
<input type="checkbox"/> External Funding		SPEX Proposal #:	
<input type="checkbox"/> Internal Funding		Oracle String:	
Grant Title:			

For IRB Office Use
IRB No: _____
Rec'd: _____

If you don't know the funding/grant information, please get it from your department's business manager.

5. Protocol Description

Provide, in lay terms, a summary of your proposed study as outlined below. You may attach the protocol to this form if you like.

Purpose of the study. Refer to final proposal page 1 A./B.

Describe the research procedures (include the activity, location and time required of the participant). Refer to final proposal page 2 F.

Who will be asked to participate? CMU freshmen who are on the Meal Plan this semester

Will questionnaires or surveys be used? Yes No

Will tasks be done on a computer? Yes No If yes, how will the tasks be accessed? Remotely via the internet?
 In the research lab? Other, please explain:

Will deception be used? Yes No If yes, describe how participants will be debriefed. Please include the debriefing material and/or script.

Will the research be conducted on the CMU campus? Yes No If no, please indicate the location(s).

If applicable, please attach documentation of permission to conduct research in private, non-CMU space.

6. Participants

Will any of the following classes of vulnerable subjects be involved in the proposed study? (check all that apply)

Class	Comments
Pregnant women, human fetuses <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Pregnant women will not be specifically included or excluded. (See http://www.hhs.gov/ohrp/humansubjects/guidance/45cfr46.htm , research that is incidental to pregnancy and has no risk to the fetus can only include pregnant women if ALL aspects of Subpart B are met.)	
Neonates <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Prisoners <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Children <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Individuals with compromised mental status Yes No If yes, indicate how this will be determined.

Will the participants be capable of understanding the nature of the study and the consent process? Yes No
 If no, explain.

What is the age range of participants in the proposed study? 18-25

How many participants are needed for the study? 543.	How was that number determined? Refer to final proposal page 8 M. for calculation details.
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What do you estimate the ratio of males to females be? 1:1 Will this be reflective of the local population? Yes No
 Will you target a certain population? Yes No Please explain The target population is CMU freshmen who are on the Meal Plan.

What do you estimate the percentage of minorities will be? American Indian or Alaska Native 22%; Asian 23%; Black or African American 5%; Hispanic or Latino 5%; Native Hawaiian or Other Pacific Islander 5%; White 40%

Please list inclusion and exclusion criteria. CMU freshmen who registered at HUB as a full-time student and bought the Meal Plan this semester will be included in the sample frame. Others will be excluded.

7. Participant Recruitment

Describe how participant recruitment will be performed. Include how and by whom potential participants are introduced to the study. Refer to final proposal page 3 K.

Check all boxes below that apply.

For IRB Office Use
IRB No: _____
Rec'd: _____

<input type="checkbox"/> CMU directory	<input type="checkbox"/> Postings, Flyers	<input type="checkbox"/> Radio, TV
<input checked="" type="checkbox"/> E-mail solicitation Indicate how the email addresses are obtained:		
<input type="checkbox"/> Web-based solicitation. Specify sites:		
<input type="checkbox"/> Participant Pool. Specify what pool:		
<input type="checkbox"/> Other, please specify:		
<i>Please attach any recruiting materials you plan to use and the text of e-mail or web-based solicitations you will use.</i>		
8. Consent		
Do you plan to use consent forms? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
If no, you must complete the section below on waiver of informed consent.		
If yes, describe how consent will be obtained and by whom. Refer to the attached consent form.		
If participants are minors will assent forms be used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, please explain. Participation in this study is limited to individuals age 18 and older.		
Will the consent form be presented on paper or online? <input type="checkbox"/> Paper <input checked="" type="checkbox"/> Online		
Are you requesting to use a consent format that is different from the CMU model consent? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If yes, please explain.		
Are you requesting a waiver of informed consent? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If yes, please explain how each of the elements listed apply to your study:		
<ol style="list-style-type: none"> 1. The research involves no more than minimal risk to the subjects; 2. The waiver will not adversely affect the rights and welfare of the subjects; 3. The research could not practicably be carried out without the waiver and ; 4. Whenever appropriate, the subjects will be provided with additional pertinent information after participation. 		
Are you requesting a waiver of written documentation (signed) of informed consent? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If yes, please answer the following questions.		
<ol style="list-style-type: none"> 1. Will the only record linking the participant and the research be the consent document and the principal risk to the participant harm would be from breach of confidentiality? <input type="checkbox"/> Yes <input type="checkbox"/> No 2. Do you consider this a minimal risk study that involves no procedures for which written consent is normally required outside of research? <input type="checkbox"/> Yes <input type="checkbox"/> No 		
9. Risks and Benefits		
Will participants receive intangible benefit from the study? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Discuss the direct and indirect benefits to participants. Refer to final proposal page 12 "Benefits".		
Discuss the risks to participants. Refer to final proposal page 11 "Risks".		
Discuss how any risks will be managed and/or minimized. Using GoogleDoc to conduct the survey, we minimize participants' risk of being exposed to harmful internet links/softwares. The information the survey asks about dining services will not cause any harm or discomfort.		
If deception is involved, please explain.		
Indicate the degree of physical or psychological risk you believe the research poses to human subjects (<i>check which one applies</i>).		
<input checked="" type="checkbox"/> Minimal Risk: A risk is minimal where the probability and magnitude of harm or discomfort anticipated in the proposed research are not greater, in and of themselves, than those ordinarily encountered in daily life of during the performance o routine physical or psychological examinations or tests.		
<input type="checkbox"/> Greater than Minimal Risk: A risk is greater than minimal where the probability and magnitude of harm or		

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discomfort anticipated in the proposed research are greater than those ordinarily encountered in daily life or during the performance of routine physical or psychological examinations or tests.
Describe how the study fits in this risk level. Questions about dining services require no more than recalling daily diet habits and satisfaction of the services. The risks and discomfort associated with participation in this study are no greater than those ordinarily encountered in daily life or during other online activities.

10. Participant Compensation and Costs

Are participants to be compensated for the study? Yes No If yes, what is the amount, type and source of funds?

Amount:	Source:	Type (gift card, cash):
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Will participants who are students be offered class credit? Yes No

Are other inducements planned to recruit participants? Yes No If yes, please describe.

Are there any costs to participants? Yes No If yes, please explain.

Will you compensate participants for injury resulting from participation? Yes No NA If yes, please describe.

11. Confidentiality and Data Security

Will personal identifiers be collected? Yes No Will identifiers be translated to a code? Yes No

Will recordings be made (audio, video)? Yes No If yes, please describe.

Is the information so sensitive that you will obtain a certificate of confidentiality from NIH? Yes No

Who will have access to data (surveys, questionnaires, recordings, interview records, etc.)? The members on our team.

Describe how you will protect participant confidentiality and secure research records (Will they be stored on a secure computer, locked cabinet, etc?). Refer to final proposal page 12 "Confidentiality".

Describe your process for monitoring data to ensure that study goals are met. (Review of lab notebooks, meetings to review data, etc.) We will review data during our weekly meeting to ensure the data were correctly collected and stored.

12. Conflict of Interest

Do you or any individual who is associated with or responsible for the design, the conduct of or the reporting of this research have an economic or financial interest in, or act as an officer or director for any outside entity whose interests could reasonably appear to be affected by this research project: Yes No

If yes, please provide detailed information to permit the IRB to determine if such involvement should be disclosed to potential research subjects.

13. Cooperating Institutions

Is this research being done in cooperation with any institutions, individuals or organizations not affiliated with CMU? Yes No If yes, please list and describe their role.

Have you received IRB approval from another IRB for this study? Yes No Pending

If yes, please attach a copy of the IRB approval.

If applicable, please provide the name(s) and address(es) of all officials authorizing to access human subjects in cooperating institutions not affiliated with CMU.

Please attach documentation of approval.

Principal Investigator's Assurance Statement for Using Human Subjects in Research

I certify that the information provided in this IRB application is complete and accurate.

I understand that as Principal Investigator, I have ultimate responsibility for the conduct of IRB approved studies, the ethical performance of protocols, the protection of the rights and welfare of human participants, and strict adherence to

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IRB No: _____
Rec'd: _____

the studies protocol and any stipulations imposed by Carnegie Mellon University Institutional Review Board.

I understand that it is my responsibility to ensure that the human participants' involvement as described in the funding proposal(s) is consistent in principle, to that contained in the IRB application. I will submit modifications and/or changes to the IRB as necessary.

I agree to comply with all Carnegie Mellon University policies and procedures, as well as with all applicable federal, state, and local laws, regarding the protection of human participants in research, including, but not limited to:

- Ensuring all investigators and key study personnel have completed human subjects training program;
- Ensuring protocols are conducted by qualified personnel following the approved IRB application;
- Implementing no changes in approved IRB applications or informed consent documents without prior IRB approval in accordance with CMU IRB policy (except in an emergency, if necessary to safeguard the well-being of a human participant, and will report to the IRB within 1 day of such change);
- Obtaining the legally effective informed consent from human participants or their representative, using only the currently approved date-stamped informed consent documents, and providing a copy to the participant.
- Ensuring that only IRB-approved investigators for this study obtain informed consent from potential subjects.
- Informing participants of any relevant new information regarding their participation in the research that becomes available.
- Promptly reporting to the IRB any new information involving risks to research participants, including reporting to the IRB, Data Safety and Monitoring Boards, sponsors and appropriate federal agencies any adverse experiences and all unanticipated problems involving risks to human subjects or others that occur in the course of the research.
- If unavailable to conduct research personally, as when on sabbatical leave or vacation, arrangements for another investigator to assume direct responsibility for studies will be made through modification requests to the IRB;
- Promptly providing the IRB with any information requested relative to protocols;
- Promptly and completely complying with IRB decisions to suspend or withdraw approval for projects;
- Obtaining Continuing Review approval prior to the date the approval for a study expires (approval for the study will automatically expire);
- Maintaining accurate and complete research records, including, but not limited to, all informed consent documents for 3 years from the date of study completion;
- Informing the CMU IRB of all locations in which human participants will be recruited for protocols and being responsible for obtaining and maintaining current IRB approvals/letters of cooperation when applicable;
- Complying with federal, state and local laws and regulations and sponsor terms and conditions; and
- Complying with CMU policies on the responsible conduct of research.

Principal Investigator Name and Signature

Date

Note: If e-mailed from the PI's CMU e-mail account a hand written signature is not needed. Please type in name and date. If the PI is a student, the faculty advisor must submit a Faculty Advisor Assurance Form.

Please email all documents to irb-review@andrew.cmu.edu.

Note: Links to the policies and Federal regulations for the protection of human research subjects (including the Code of Federal Regulations [CFR.] Title 45 CFR Part 46 and Title 21 C.F.R. parts 50 and 56) are available on the IRB web page (<http://www.cmu.edu/provost/spon-res/compliance/hs.htm>).

Comments: