

ABOUT UMASS DINING

OUR MISSION

Contribute to the campus life experience by providing a variety of healthy flavorful meals featuring local cuisine in a sustainable and environmentally conscious manner.

OUR VISION

To be one of the best campus dining facilities in the nation and a premiere storyteller.

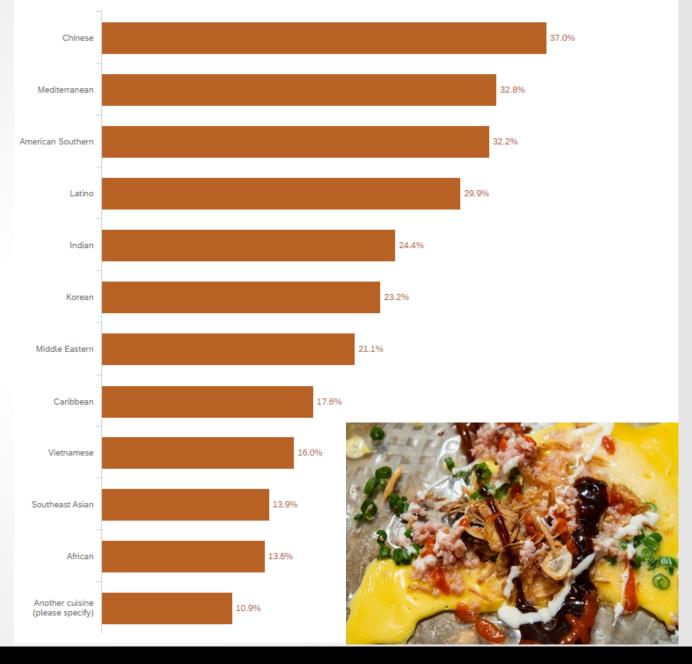


FOOD CULTURE

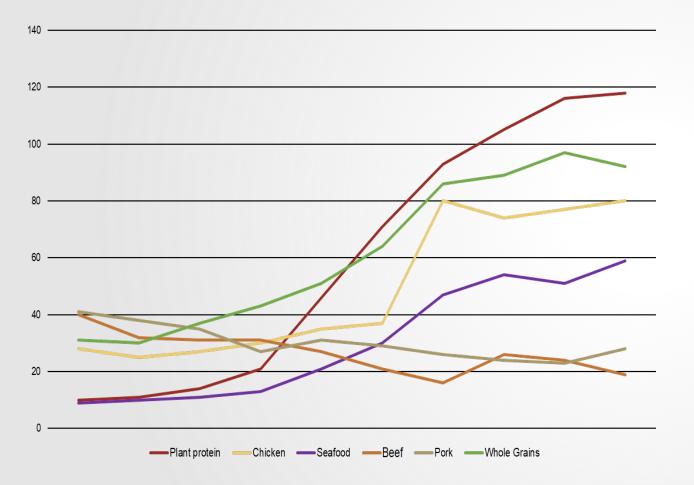


STUDENT GLOBAL **CUISINE PREFERENCES**

- CHINESE 37%
- MEDITERRANEAN 32.8%
- **AMERICAN SOUTHERN- 32.2%**
- LATINO- 29.9%
- INDIAN- 24.4%
- **KOREAN- 23.2%**
- MIDDLE EASTERN- 21.1%
- CARIBBEAN- 17.6%
- VIETNAMESE- 16%
- 10. AFRICAN- 13.6%
- 11. OTHER-10.9%



AVERAGE NUMBER MENU ITEMS/WEEK 2012 TO 2022



Utilizing Mushrooms to Reduce Overall Sodium in Taco Filling Using Physical and Sensory Evaluation

Kristin M. Wong D, Eric A. Decker, Wesley R. Autio, Ken Toong, Garett DiStefano, and Amanda J. Kinchla D

Abstract: This project investigated the use of integrating mushrooms into beef taco filling as a means to reduce overall sodium for food service applications. Initial product development used physical characterization analysis (moisture, yield, color, and texture) to determine initial threshold of mushroom inclusion with minimal differences against an all-meat control. Increasing mushroom inclusion increased moisture and yield before draining but decreased yield after draining, lightness, redness, and texture. Results showed that inclusion under 50% by weight minimized physical attribute deviation from an all-meat control. Additional physical analysis investigated a variety of other factors (mushroom type, blanching, and particle size) to determine if other attributing mushroom characteristics would yield statistical similarity to the all-meat control. Results showed that a formulation containing up to 45% mushrooms can be integrated into beef fillings using un-blanched, white button mushrooms with small grind (1 to 5 mm), which maximized mushroom usage while minimizing differences from the all-meat control. Additional sodium analysis showed that varying salt level in formulations did not affect physical characteristics and mushroom inclusion could not significantly reduce overall sodium level. Optimized mushroom samples were then fielded in a hedonic sensory study to untrained consumers to evaluate product liking attributes (overall liking, aroma, color, flavor, jutciness, saltiness, and texture). Samples with overall liking scores that closely matched the control were then fielded in a paired-preference test to determine acceptance. Consumers preferred a 45% mushroom with reduced sodium taco filling compared to its full sodium counterpart in a food service fielded patred-preference sensory test.

Keywords: meat extension, mushroom, physical properties, sensory, sodium reduction

Practical Application: Although diet can significantly reduce the risk of heart disease, American consumers continue to eat detrimental diets high in fat and sodium. Products need to be made that decrease fat and sodium intake while still delivering acceptable taste. Mushroom substitution into meat-based products can be a strategy to develop products that

Sensory data from untrained consumers found that taco filling prepared with 45% mushroom and 45% reduced salt was preferred over the full salt formulation also containing 45% mushroom.

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Food Science

UMassAmherst UMass Dining

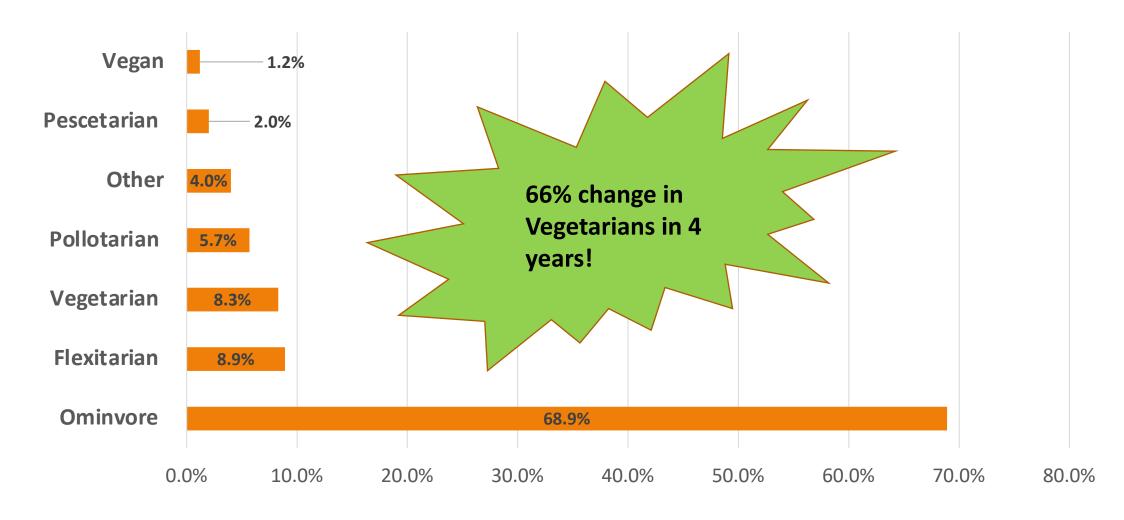
"The Omnivore's Dilemma"

Which of the following best describes your current diet?





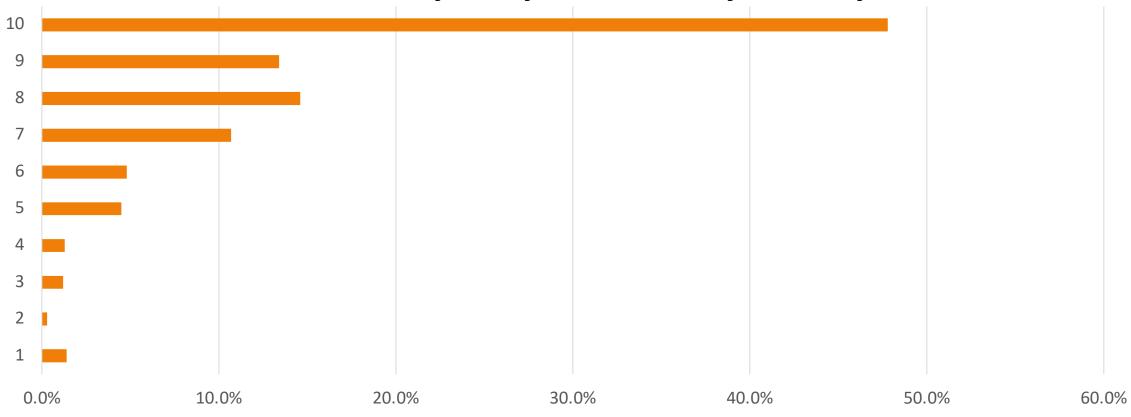
Vegetarians are taking over the World!





Local Culture meets Consumption

How likely or unlikely are you to purchase after college on a scale of 1 to 10, where 10 is very likely and 1 is very unlikely





Joe vs. Goliath

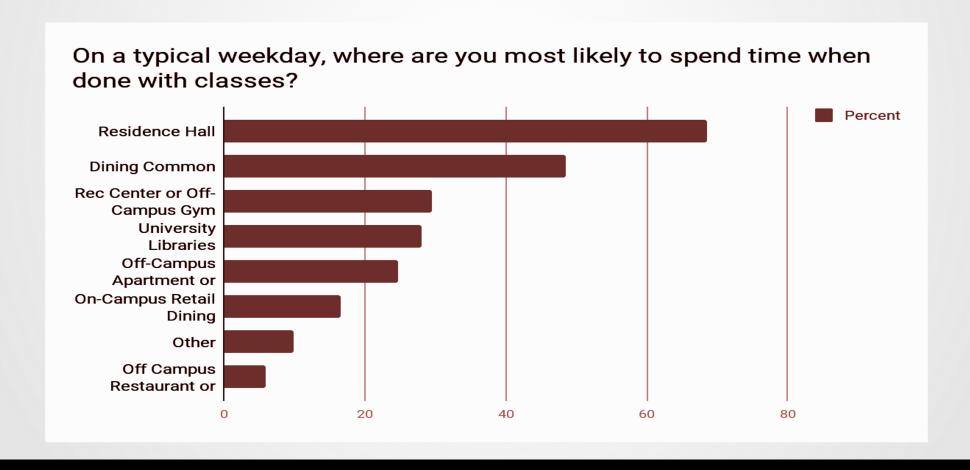




- 30% of students are very likely to purchase a Coke product after college
- 48% of students are very likely to purchase a Local product after college

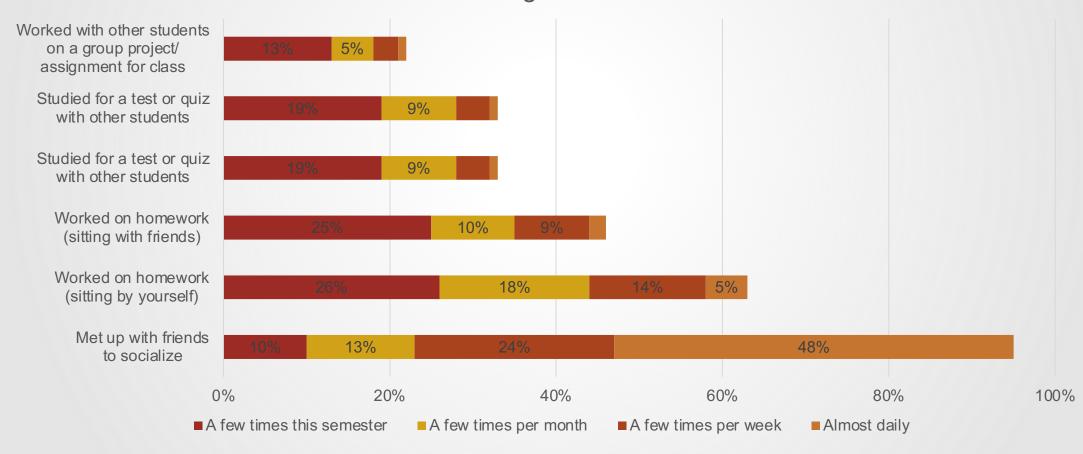


WHERE DO STUDENTS SPEND TIME ON CAMPUS?

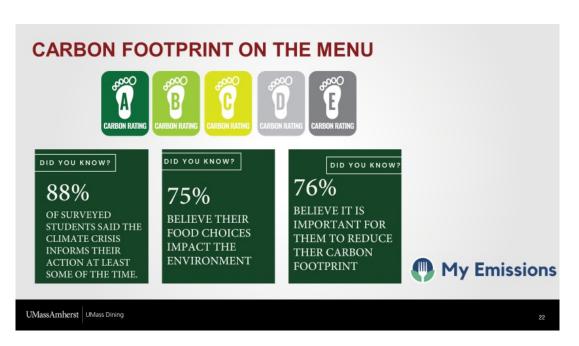


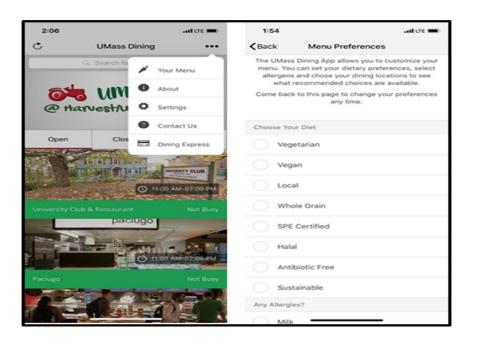
STUDENT ENGAGEMENT

So far this semester, how often have you done each of the following in the Dining Commons?



Technology and Classic Service







Tonight, I went to Blue wall and experienced ordering my own food through the iPad. Although I thought it was more efficient for the workers, I thought that the line went by slower than usual.... When I order face to face I can ask for extra rice or to have all the hot stuff placed on top of each other and not in the separate sections.

ALLERGEN CONSCIOUS

	2016-17	2022-23	Percent Change
Gluten	0.80%	1.32%	65%
Peanuts	1.06%	2.30%	117%
Tree Nuts	1.27%	2.73%	115%
Fish	0.17%	0.43%	162%
Shellfish	0.48%	1.00%	109%
Milk	0.43%	0.93%	116%
Egg	0.26%	0.38%	44%
Soy	0.13%	0.23%	78%
Sesame	0.13%	0.30%	135%
Corn	0.02%	0.04%	100%
Fruits	0.30%	0.27%	-10%
Vegetables	0.16%	0.11%	-28%
Total Allergy	5.20%	10.04%	93%

Percent of students with Allergen or Intolerance has nearly doubled in the past seven years.

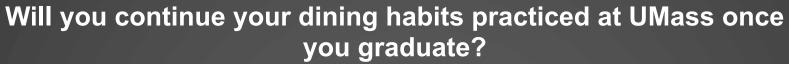
UMass Dining Student Impact

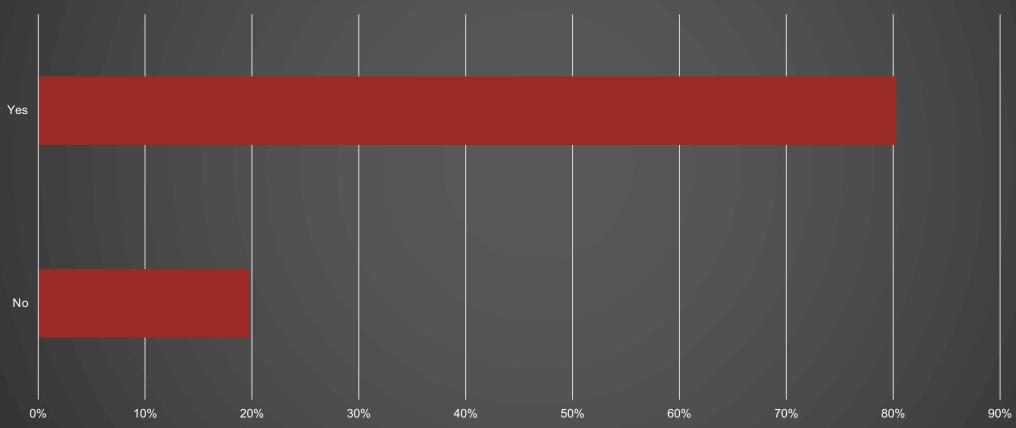
- 88% of students believe UMass Dining contributes positively to their personal wellbeing
- 83% of students believe UMass Dining enhances their sense of belonging at the university
- 87% of students believe UMass Dining enhances their sense of value of the overall university experience





Consumption Trends







CURRENT NATIONAL TRENDS

- Meal Plan and Housing revenue are critical to institutional financial security
- Competition for student meal plan dollars continues to grow
- Gen Z students demand quality, authenticity, diversity and value.
- National undergraduate participation average between 60 and 70%-- UMass Amherst 92%
- Off campus/ voluntary plan participation falls 33 to 40%-- over 70% of UMass seniors are on a meal plan
- Social media influences Gen Z: critical decisions involve.

FAMILY

UMassAmherst

UMass Dining



BE REVOLUTIONARY™