

### Introduction

Purdue University Recreation and Wellness runs the France A. Córdova Recreational Sports Center with the goal of “Provide the Purdue community with Recreational and Wellness activities that contribute to learning and the pursuit of an active, healthy lifestyle.”

- Began meeting at the beginning of the Spring 2020 Semester
- Early meetings began with discussing project of analyzing how the Recreation and Wellness is impacting Undergraduate, Fee Paying Students at Purdue University

### Goal

- Analyze how the Recreation and Wellness impacts Undergraduate, Fee Paying Students at Purdue University.
- Show that students who visit the recreational facilities have higher GPA than those who do not

### Classifying Students

In this research, we are only focused on undergraduate, fee paying students at Purdue University.

Classifying by if they swipe into the recreational facilities:

- One Swipe are students who have swiped at least on time
- No Swipes are students

Classifying by number of swipes into the recreational facilities (Level of User):

- Zero Users are students who did not swipe in
- Infrequent Users swipe in 1 to 6 times
- Moderate Users swipe in 6 to 12 times
- Heavy Users swipe in 12 or more times

Classifying by where students live:

- Off-Campus Housing
  - On-Campus Housing
- (We break on-campus housing into each of the residential halls)

Classifying by Level of GPA(grade point average):

- Less than 2.0
- 2.0 to 2.5
- Greater than 2.5

Classifying by academic standing:

- Academic Probation
- Good academic standing with the university

Classifying by number of credits dropped

- 0 to 3 credits dropped
- 3 to 6 credits dropped
- Greater than 6 credits dropped

Next, we mix classification. We start with a base of Level of User or One Swipe, then break them down by each of the other classifications. For example, One Swipe broken down by On-Campus and Off-Campus housing.

### Data Collection

We collect data on students who swipe into the recreational facilities.

Data we looked at:

- How many times they swipe in
- Where they live
- GPA
- Academic Standing
- Credits Dropped

What we used:

- We used Excel to clean and analyze data

### Predictions

Hypothesis: Recreation and Wellness use has a positive correlation with student health and academic standing

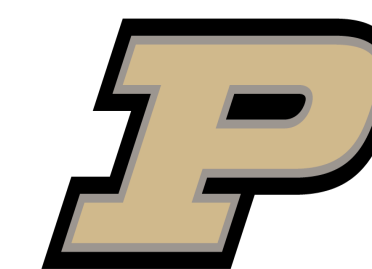
- Students who have swiped into the recreational facilities at least once (One Swipe) to have a higher GPA than those who did not swipe in at all.
- As the number of swipes increases, the GPA also increases.
- Students who visit more will not be on academic probation.
- Students who live closer will visit more than those who live further away or live off campus.

Overall, we predict that the Purdue University Recreation and Wellness has a positive impact on Undergraduate, Fee Paying Students at Purdue University.

### Acknowledgements

Thanking everyone who helped this year!

- Purdue Recreation and Wellness Staff – Michelle Whipple
- Data Mine Staff – Dr. Mark Ward and Maggie Betz



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### Past Results and Future Plans

Due to Purdue University and the Recreational Facilities closing, we were unable to finish our research.

Results from past years:

- One Swipe Students have a higher GPA than Zero Swipes.
- Recreation and Wellness use has a positive correlation with academic standing
- Of the students who visit at least once (One Swipe), have a lower percentage dropping credits and being on academic probation.
- Students who live in on-campus housing visit the recreational facilities more than off-campus.
- Students who live in residence halls closer to the recreational facilities visit more than those who live in recreational facilities further away.

Future Plans:

- Finish researching and analyzing this year’s data
- Compare International and Domestic Students
- Look closer at student housing in terms of swipes and GPA
- Compare Genders

In the future, we plan to finish our research and investigate more variables