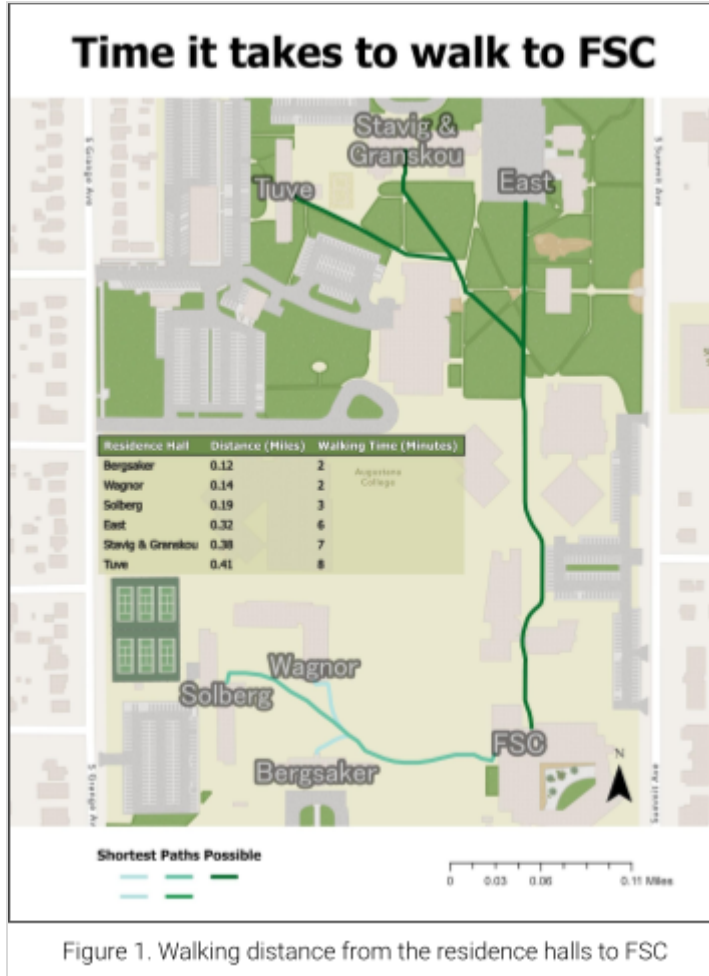


# LAB 3 Part 1

INTRODUCTION TO GIS  
Professor Sarah Olimb

Soobin Rho  
March 3, 2023



## GIS Tools & Techniques Applied:

In this lab, basically all the class features we learned from the last lab were used. The line features were used for marking the shortest paths from the residence halls to FSC. What surprised me pleasantly was that the line class automatically calculates the distance for you. I just had to convert the meters to miles.

Likewise, the point features were used for marking where the residence halls & FSC are.

One thing that I learned completely new in this lab was how to insert a table in the layout. To be honest, I think there should be a better way to display the information I am trying to convey here instead of just a table, but this was the best I could come up with. I tinkered with the background color / transparency settings to make the information as readable as possible for the reader.

## Question:

How long does it take to walk from the residence halls to FSC?

## Methodology:

- Decide which tools to use from the last two labs. Choose the most effective tool for the task.
- Determine how the audience would like to view the map. Make it as readable as possible.

**Conclusions:** Both Bergsaker Hall and Wagner Hall have the shortest distance to FSC. It takes them only two minutes to walk. In contrast, Tuve Hall takes 8 minutes to walk.

**Data Sources:** ArcGIS's *Measure Distance* feature was the main source of this lab.

<https://www.augie.edu/news/2022/curious-about-construction-renovations-underway-augustana-universitys-new-campus-green>

Walking time was calculated using

<http://www.happyhiker.co.uk/Safety/Hiking%20Pages%20-%20Walking%20time%20calculator.htm>

# ***LAB 3 Part 2***

## INTRODUCTION TO GIS

Professor Sarah Olimb

**Soobin Rho**  
**March 3, 2023**

**GIS Tools & Techniques Applied:**

...

**Question:**

...

**Methodology:**

- ...

**Conclusions:** ...

**Data Sources:** Not used, but for future references:

Sioux Falls GIS Data

<https://dataworks.siouxfalls.org/>

South Dakota GIS Data

<https://opendata2017-09-18t192802468z-sdbit.opendata.arcgis.com/>