

# Native trees of Arkansas

NEAL CASEMENT

ENVIRONMENTAL GEOLOGY

EMFACTS PROJECT FALL  
2021

PROFESSOR PAUL LOWREY



# Introduction

- With his project I have mapped out and described some of the all the native trees planted on the Old Main lawn on the University of Arkansas campus. The campus has one of each of the native trees of Arkansas and I have created a way to compile a map and information on each tree in an easy-to-use format.

# Project Overview

I used the Survey 123 app to create a user-friendly survey that can be used to collect the data for each of the trees on the University of Arkansas campus.

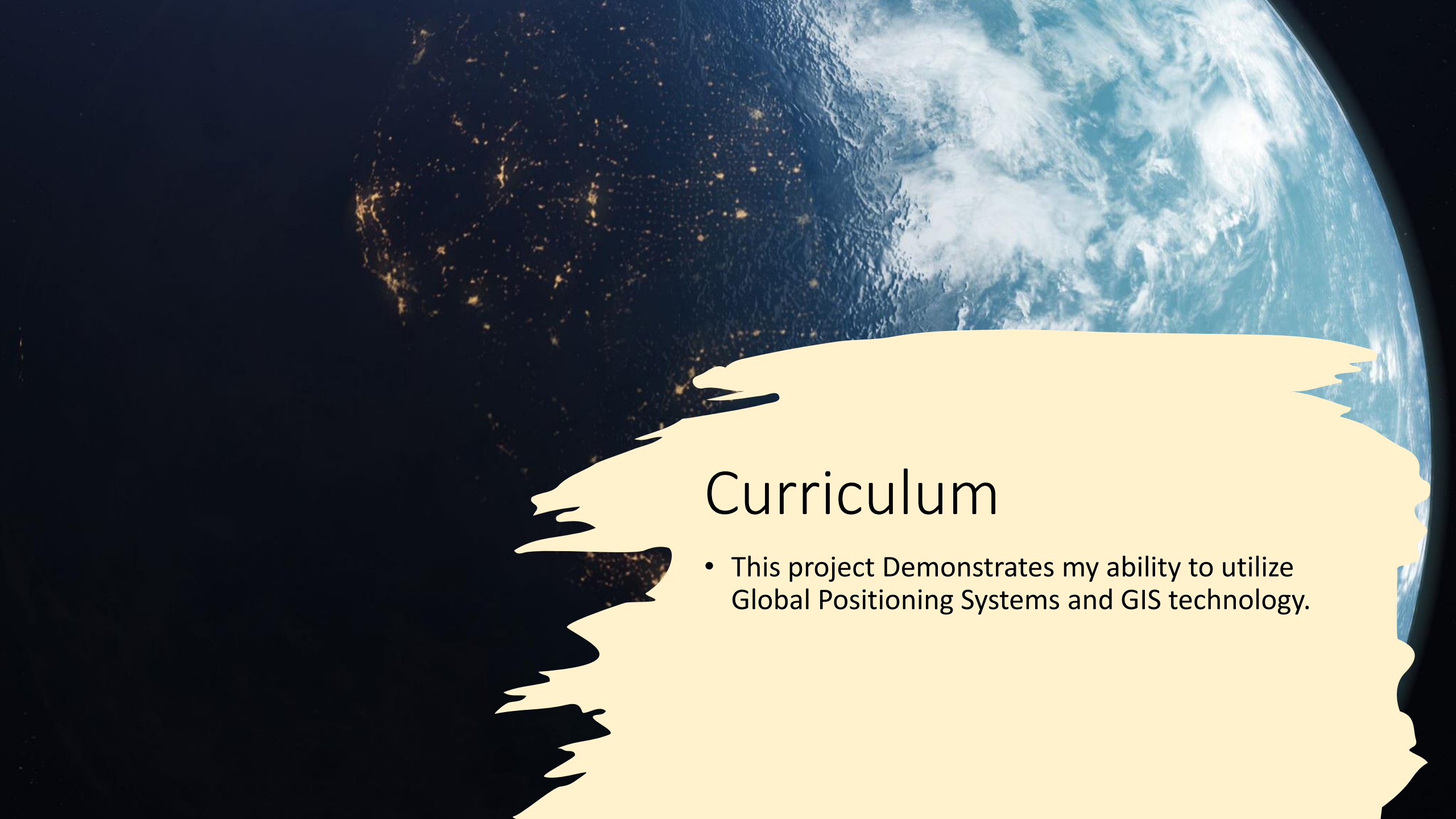
With this survey users can take photos of the trees as well as document the height and size of the trees.

This project will help users identify the native trees around them on the campus as well as track the growth over the years.



# Community

The community I hope to serve would be anyone that wants to learn about and view the native trees of the state on campus but may not be able to go out and see these trees in person. Some people may have issues with mobility or not be able to access the campus as easily. I want to connect people with tree knowledge to people with out it.



# Curriculum

- This project Demonstrates my ability to utilize Global Positioning Systems and GIS technology.

The background features a close-up of a pen writing on a map. The map has a grid of dotted lines and some numbers like '2.5' and '2.47'. A large, light blue brushstroke shape is overlaid on the right side of the image, containing the text.

# Technology

I used the Survey 123 app and  
ARCmaponline to compile the data and make my  
map.

# Methodology

I completed the project independently

My survey was completed on October 1<sup>st</sup> due to work and school obligations.

My data collection was completed on October 11<sup>th</sup> rather than the 4<sup>th</sup> due to the setback on my survey creation.

All the data and survey information was completed by the 11<sup>th</sup> and the project was finalized with Dianne on Tuesday November 23<sup>rd</sup>





# Results Continued



I PRODUCED A SURVEY THROUGH SURVEY  
123- [HTTPS://ARCG.IS/5X5P5](https://arCG.is/5X5P5)



I CREATED A LIVING MAP ON ARCMAPS  
ONLINE-  
[HTTPS://NWACCEASTLAB.MAPS.ARCGIS.CO  
M/APPS/STORYMAPBASIC/INDEX.HTML?APP  
ID=609BDD14690149E08AECA1A7F48D9E85](https://nwacceastlab.maps.arcgis.com/apps/storymapbasic/index.html?appid=609BDD14690149E08AECA1A7F48D9E85)



# Survey Details

The survey asks questions for the user to answer such as: what type of tree, how tall is it, how wide is it, is it deciduous or conifer, etc.

Then the user can upload a picture of the tree and mark on the map where the tree is so that anyone who pulls up the map can see what previous people have documented.

## Acknowledgements

Special thanks to Professor Lowrey for access to the applications and how to use them

Professor Dianne Phillips for assisting with the final touches on organization of information.

# References



Survey 123



Arcmaps online



University of Arkansas Old  
Main lawn