

Jack Hesse-Withbroe

101 Roosevelt Ave • Eau Claire, WI 54703 • 651 323-7163 • hessewj9033@uwec.edu • <https://hessegis.weebly.com/>

Education

University of Wisconsin-Eau Claire

Degree: Bachelor of Science

Expected Graduation: May 2026

Eau Claire, WI Major: Geospatial Analysis and Technology

- Certificate: Information Systems – Certificate: Earth Resources

Technical Skills

Software Programs

- **ArcGIS Pro:** Geoprocessing Operations, Cartography, Layout Design, Spatial Analyst, Interpolation, Site Suitability Analysis, Shapefile Creation, Raster Creation, Geodatabase Production, ModelBuilder, Spatial, Non-Spatial Joins, Lidar data, Arial Imagery, Weighted Sum Analysis
- **ArcGIS Online:** Feature Layer Creation, Webmapping, StoryMaps, Dashboards
- **ESRI FieldMaps, QGIS, ArcMap, ArcScene, Erdas Imagine**
- **Adobe Illustrator:** Cartographic Design
- **Microsoft Word, PowerPoint, Teams, Excel:** Dataset Creation, Dataset Manipulation

Languages

- **Python:** Geopandas, Pandas, Numpy, Matplotlib, Folium, Rasterio, GDAL
- **R:** Leaflet, DPLYR
- **HTML, Java, SQL**

Relevant Coursework

Geospatial

- G.I.S I, G.I.S II, G.I.S III, Quantitative Methods in Geography, Applied Cartography and Geovisualization, Cartography, Remote Sensing of the Environment, Introduction to Geospatial Analysis

Scripting/Programming

- Computing with Python, Data Analysis with R, Computing with Java, Webpage Design with HTML

Environmental

- Biogeography, Climatology, Conservation of the Environment, Physical Geography

Leadership Experience

University of Wisconsin-Eau Claire Cross Country, Track & Field

Fall 2021 - Present

Captain

- Committed approximately 40 hours per week to training, traveling across country to meets, managing team administration, and leading team meetings all while maintaining full course load and working

Work Experience

Advanced Private Investigations, Inc

June 2023 - Present

Security Guard

- Maintain positive customer relations
- Verify quantities item types and SKU numbers
- Maintain consistent radio communication with other guards
- Train new employees in security and employee practices

Eau Claire, WI

