

# Warren Wilson

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## Education

*Warren Wilson College - Asheville, NC*

BS - Environmental Studies

May 2020

Concentrations: Earth & Water Resources and Environmental Education

Cumulative GPA: 3.41/4.00

*Cool Special High School – City, State*

June 2016

Agriscience and Biotechnology Center - Concentration in Plant Science

## Relevant Coursework

*Natural Sciences Undergraduate Research Seminar - Senior Research Capstone*

Title of NSURS in the Warren Wilson College Collection Greenhouse

- Independently designed and conducted a research experiment to test a hypothesis.
- Gathered data by counting individual number of mealybugs per plant.
- Compiled and analyzed data using spreadsheets, pivot tables, and chi square tests.
- Wrote a formal scientific paper and presented conclusions and recommendations to the campus community.

*Program Planning and Design Capstone Project*

- Produced a 200+ page gardening and nature awareness curriculum guide outlining a needs assessment, goals and objectives, schedules, equipment and supply lists, budget, program evaluation, and biweekly lesson plans for a four-month program.
- Adapted lessons to fit the needs of senior citizens in assisted living facilities.
- Formally presented project to campus community.

*Aquatic Ecology & Water Pollution*

- Delineated watershed boundaries and calculated watershed areas.
- Conducted analytical techniques for basic water quality parameters including pH, dissolved oxygen, conductivity, ammonia, nitrate, phosphate, chlorophyll, BOD, and total suspended solids.
- Identified and quantified densities of common aquatic organisms (phytoplankton, zooplankton, fish, periphyton, macrophytes, and benthic invertebrates).
- Collected samples using standard limnological field sampling equipment (van dorn bottle, secchi disk, DO meter, zooplankton net, Eckman benthic dredge, fish traps, and fish electroshocker).

### *Introduction to Environmental Engineering*

- Delineated a watershed boundary and calculated a watershed area for a proposed stormwater management wetland on campus.
- Reviewed publications and regulations on the management of water, waste, and air pollution.

### *Soil Science*

- Conducted analytical techniques for determining soil type and soil usage, including creating a soil profile, referencing a Munsell soil color chart, and calculating parameters such as infiltration rates and soil bulk density.
- Applied research and writing skills in lab reports by writing an analysis of the procedures and conclusions of data gathered from field work.

### *Hydrology*

- Practiced several methods of computing the areal average for precipitation in a drainage basin.

### *Intro to GIS*

- Accessed spatial data from the internet and incorporated them into local geographic analysis.
- Collected, organized, edited, analyzed, interpreted, and visually represented geographic data using multiple open source GIS software packages (QGIS, GRASS).
- Queried data in a GIS in order to address geographic questions.
- Proposed and conducted an individual research project using open source GIS as the main tool for analysis.