



# GEM3

Genes by Environment  
Modeling · Mechanisms · Mapping

**Module Name:** Milkweed Genecology and Adaptive Traits

**Institution:** College of Western Idaho

**Contact Person:** Stephanie Sevigny, [stephanieseigny@cw.edu](mailto:stephanieseigny@cw.edu)

**Summary:**

Curriculum about phenotypic plasticity, genecology and adaptation. This module has been designed to be delivered over two lab periods.

*This module has been used in CWI's General Ecology (ENVI 260L) course.*

**Contents:**

- Photos: Lab Activities
- Guide: *Climate WNA manual*
- Guide: *Evaluating Showy Milkweed (Asclepias speciosa) ecotypic variation in adaptive traits using a genecological approach, part 1*
- Guide: *Evaluating Showy Milkweed (Asclepias speciosa) ecotypic variation in adaptive traits using a genecological approach, part 2*
- Guide: Plant character and climate variable description supplement
- Worksheet: *Evaluating Showy Milkweed (Asclepias speciosa) ecotypic variation in adaptive traits using a genecological approach*
- Instructional Resources: R-data and script

**Notes:**

This lab module was developed and tested by Dusty Perkins.

**Questions?** Contact the PI or the GEM3 PUI Liaison, Stephanie Sevigny, [stephanieseigny@boisestate.edu](mailto:stephanieseigny@boisestate.edu)

*Last Updated: 09/16/2021*