

BIOLOGY 3671 - EVOLUTIONARY CONCEPTS**Topic 1: THE EVOLUTIONARY PARADIGM**

The Value of a World View
Variation in Mice
Variation in Galapagos Finches
Heritability in Galapagos Finches
Struggle for Existence (= density dependence)
Heritable Variation Influences the Struggle
Adaptation Through Time

Tutorial 1: Choose the theme – build the team.

Identify and join your class working group for the term project “Evolutionary Insights”. Work with your group to choose the theme, assess each member’s knowledge about the theme, and the member’s strengths and weaknesses. Build the team, assign preliminary tasks, outline the project and build a tentative timeline. Recast the theme into identifiable and answerable parts. Write a lay version of the theme outlining what you will aim to do. This one-page summary should also state clearly why understanding this particular theme is important to our more general understanding of evolutionary concepts. Answer the following questions:

What do we want to know (make a list)?

What do we know (make a list)?

What do we need to know (make a list)?

Who knows what (make a list)?

How do we make this work (define leadership and teamwork)?

What expectations would coincide with the following indicators of student achievements on this task (exceptional, outstanding, very strong, strong, moderate, insufficient: make a list or table)?

Required Reading:

Morris and Lundberg 2011: Chapter 1.