

Teaching Summary

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My Courses

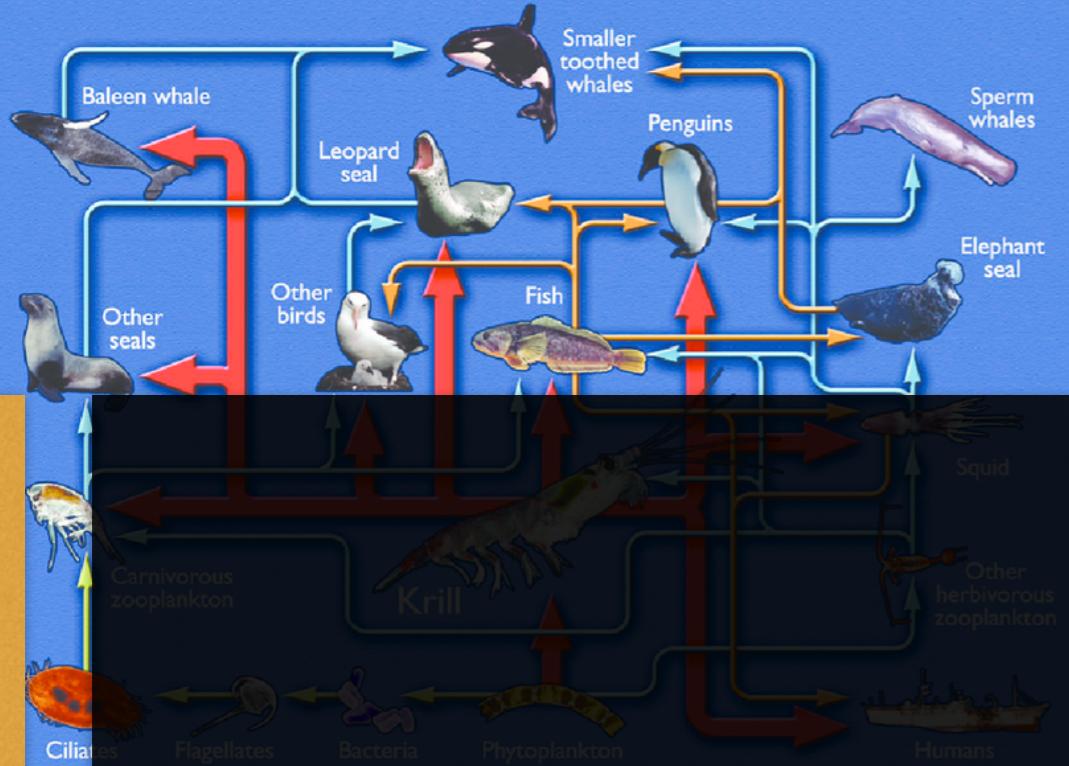
During my graduate and postdoctoral training, I have had an opportunity to teach several university-level courses as Instructor or Co-Instructor...

Principles of Biology

(non-majors)

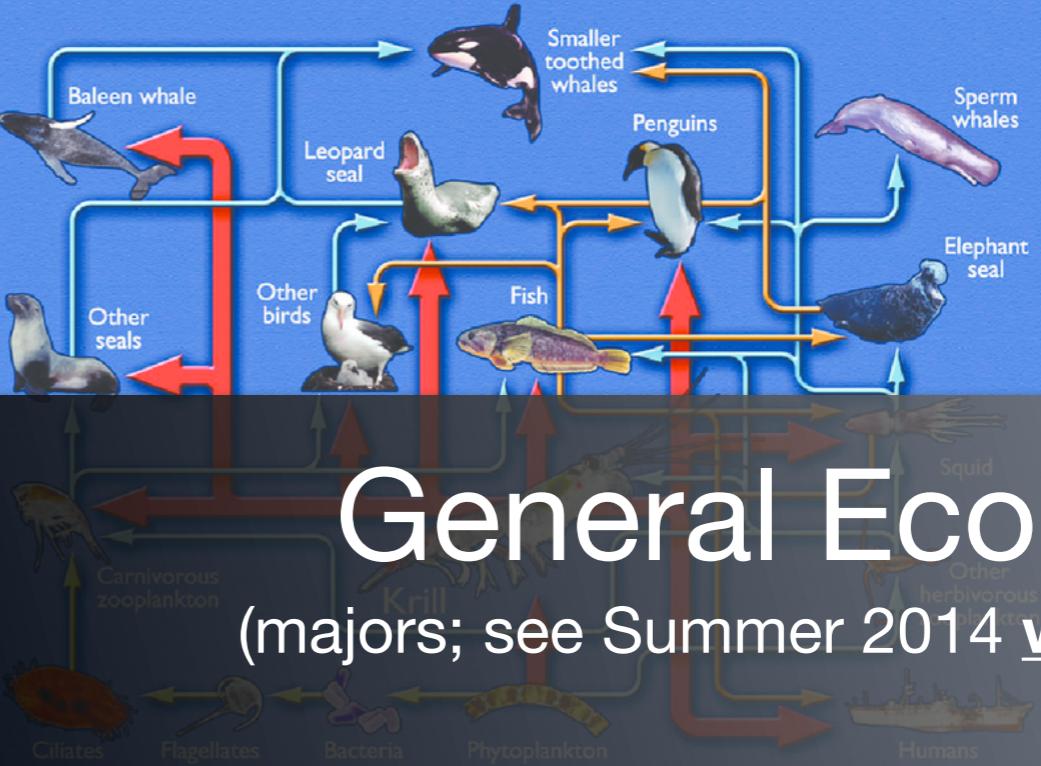
Course Description: The purpose of this course is to help students develop character traits, intellectual abilities, and basic literacy in biological sciences to "think clearly, communicate effectively, and act wisely" as stewards and citizens in their homes, communities, and the world. [Read more >](#)

Antarctic Food Web

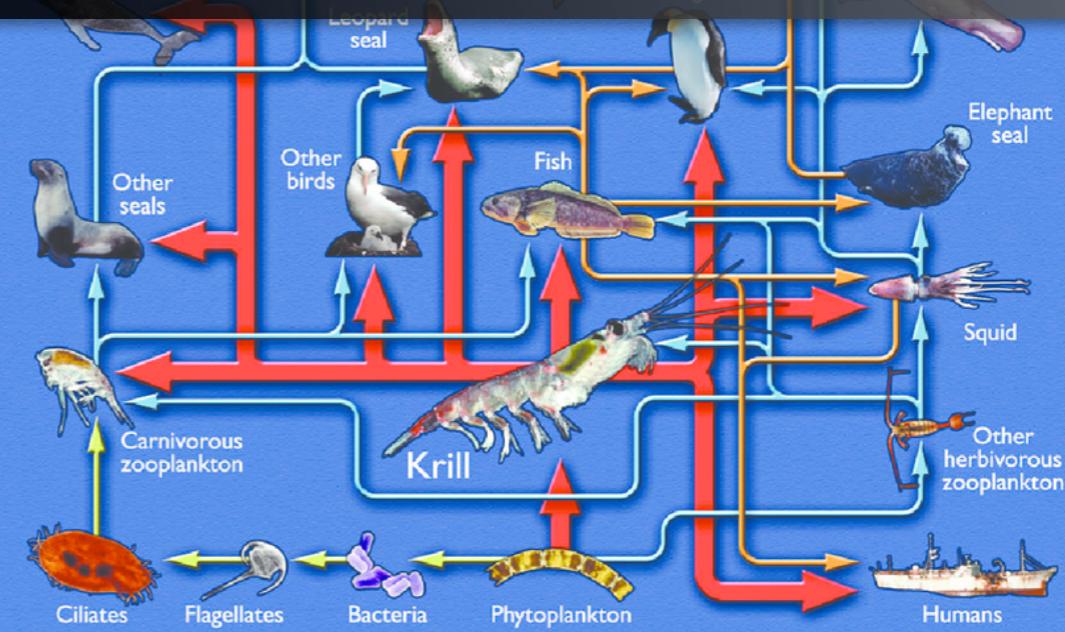
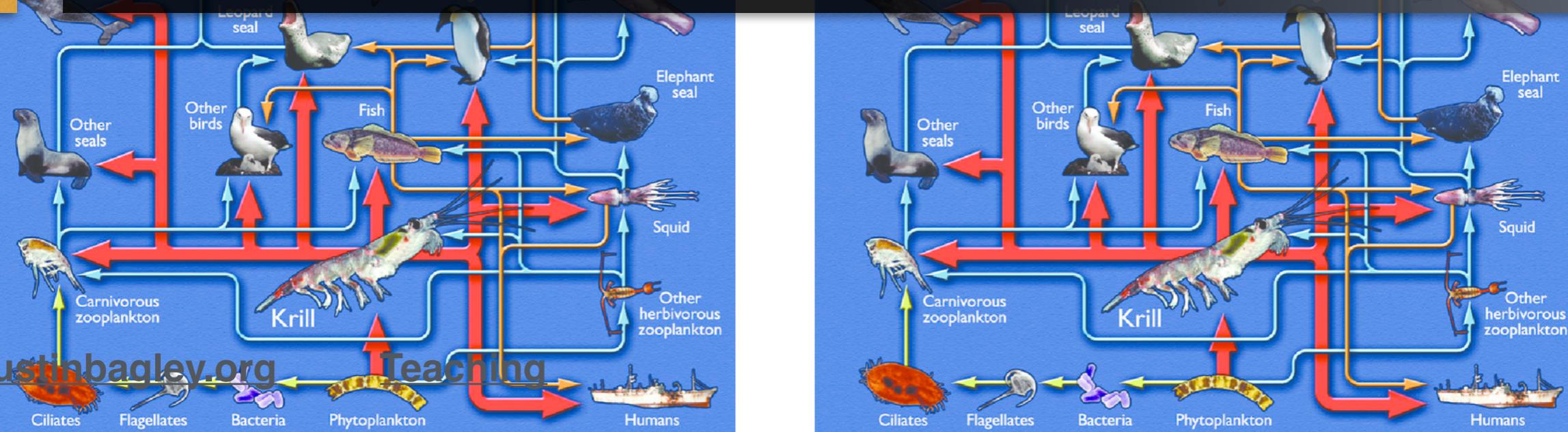
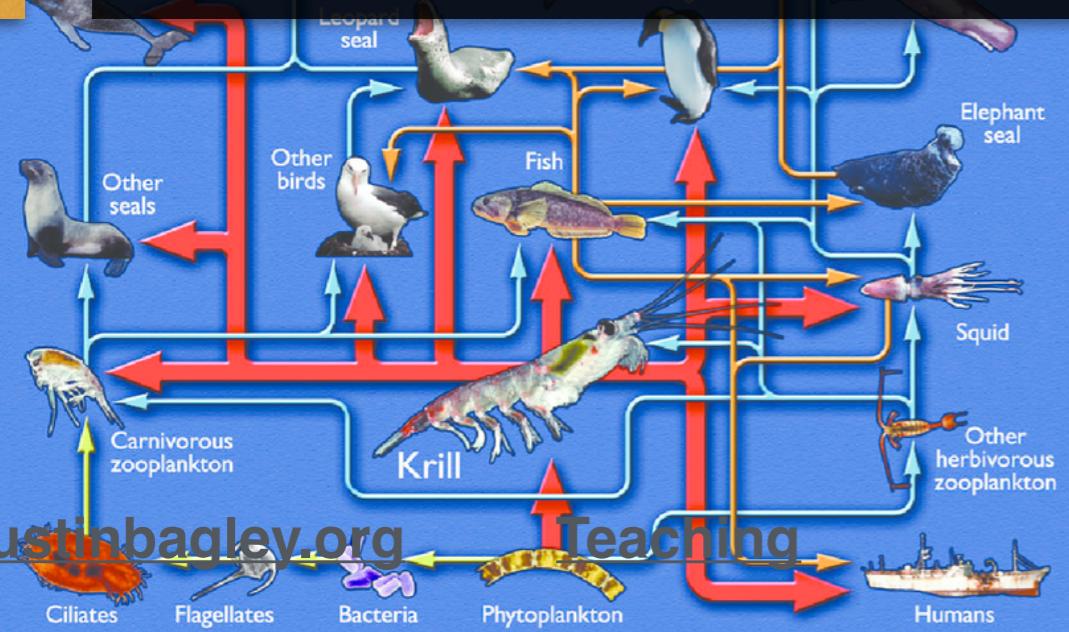


Course Description: Ecology is the scientific study of the relationships between organisms and their environment, including interactions that determine the distribution and abundance of organisms. This course provides an introduction to the patterns and processes influencing variation across different biological levels, from individuals to populations, communities, and ecosystems. [Read more >](#)

Antarctic Food Web



General Ecology
(majors; see Summer 2014 [website](#))



"The first step to wisdom is getting things by their right name." – Chinese Proverb cited by Edward O. Wilson in *Naturalist*.



Integrative Taxonomy

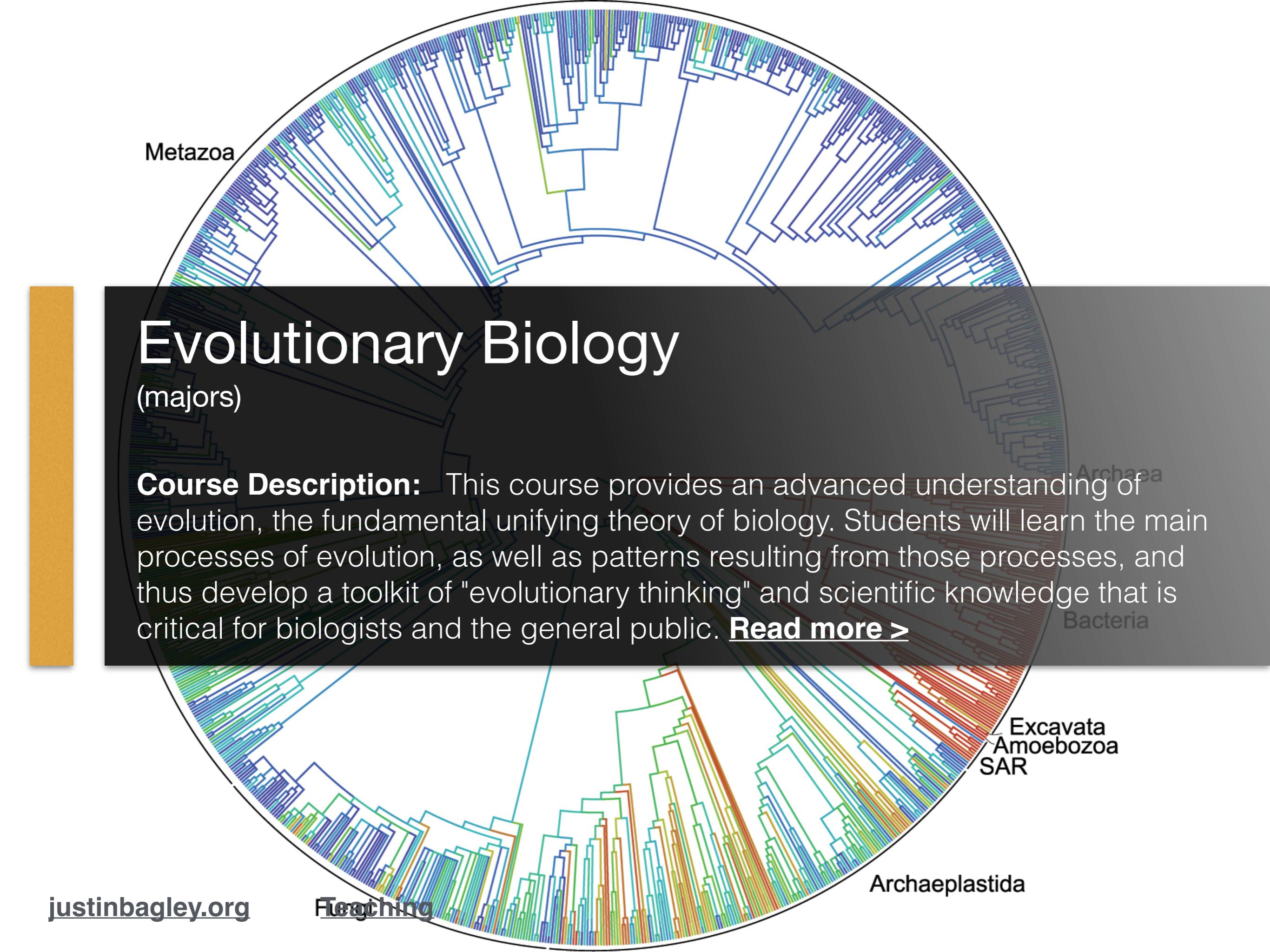
(majors undergraduate & graduate)

Course Description: Taxonomy is the field of biology concerned with discovering, naming, describing, and classifying organisms. Taxonomic classifications provide a means of communicating and storing information about species, which are the fundamental components of biodiversity. [**Read more >**](#)

My Courses

Courses under development...

(that I would be comfortable teaching,
given my areas of expertise)

A circular phylogenetic tree of life diagram. The tree is rooted at the bottom and branches outwards. Major groups are labeled along the perimeter: Metazoa (top left), Archaea (top right), Bacteria (bottom right), Archaeplastida (bottom), Excavata (right), Amoebozoa (right), and SAR (right). The interior of the circle contains many smaller, unlabeled branches.

Metazoa

Evolutionary Biology

(majors)

Course Description: This course provides an advanced understanding of evolution, the fundamental unifying theory of biology. Students will learn the main processes of evolution, as well as patterns resulting from those processes, and thus develop a toolkit of "evolutionary thinking" and scientific knowledge that is critical for biologists and the general public. [Read more >](#)



Ichthyology (Study of Fishes)

(majors)

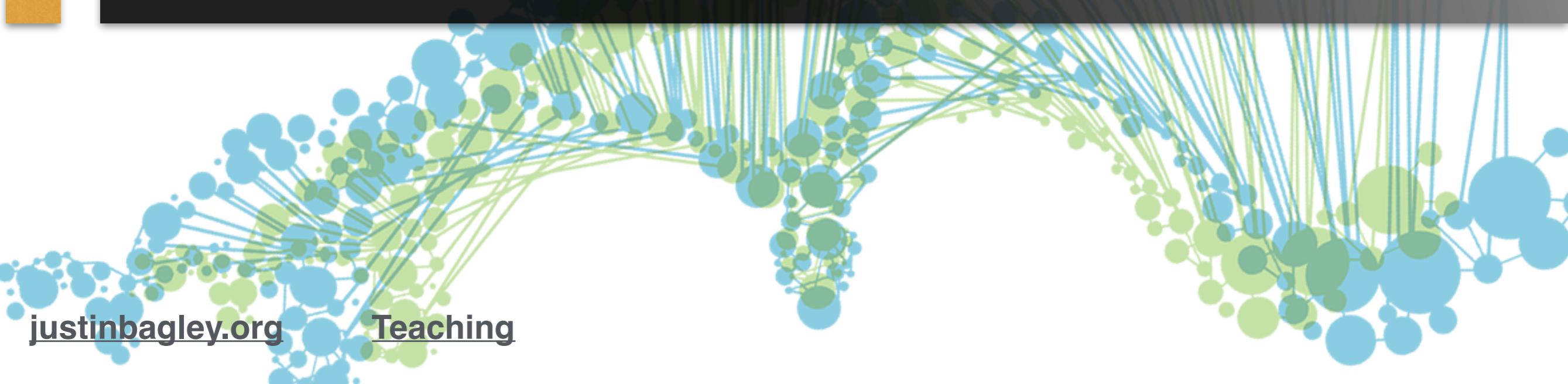
Course Description: I will instill in students an understanding of and great appreciation for the world of fishes. Fishes are a monophyletic group that encompasses >32,500 species and thus outnumber all other vertebrate species combined (including birds, amphibians, "reptiles", and mammals). [Read more >](#)

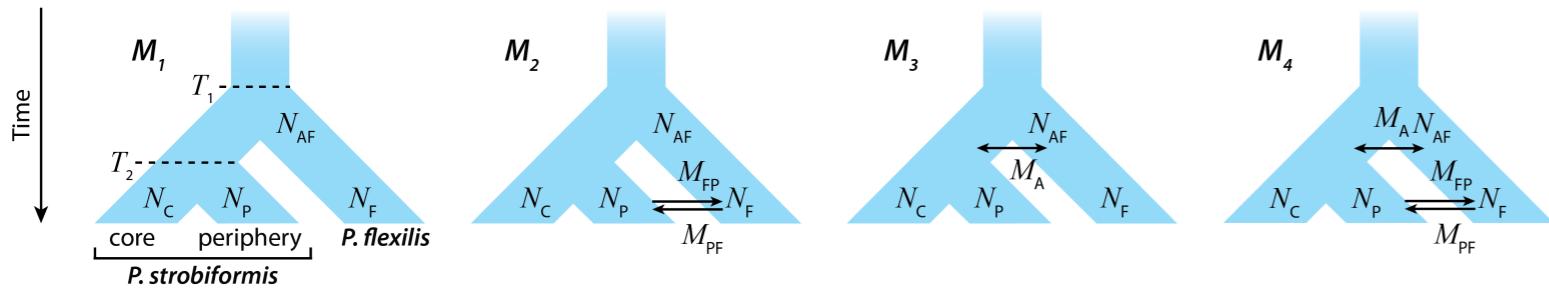
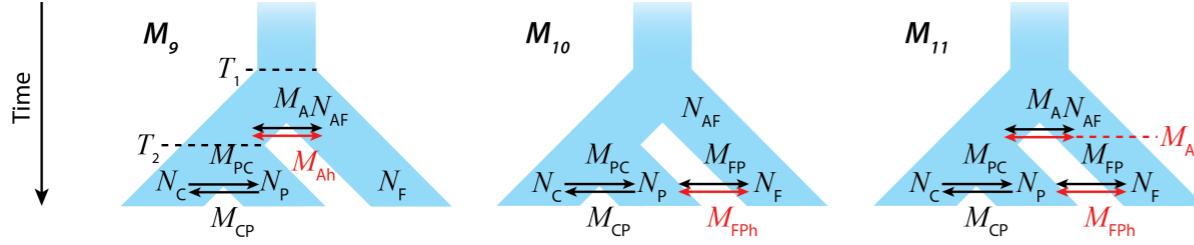


Genetics

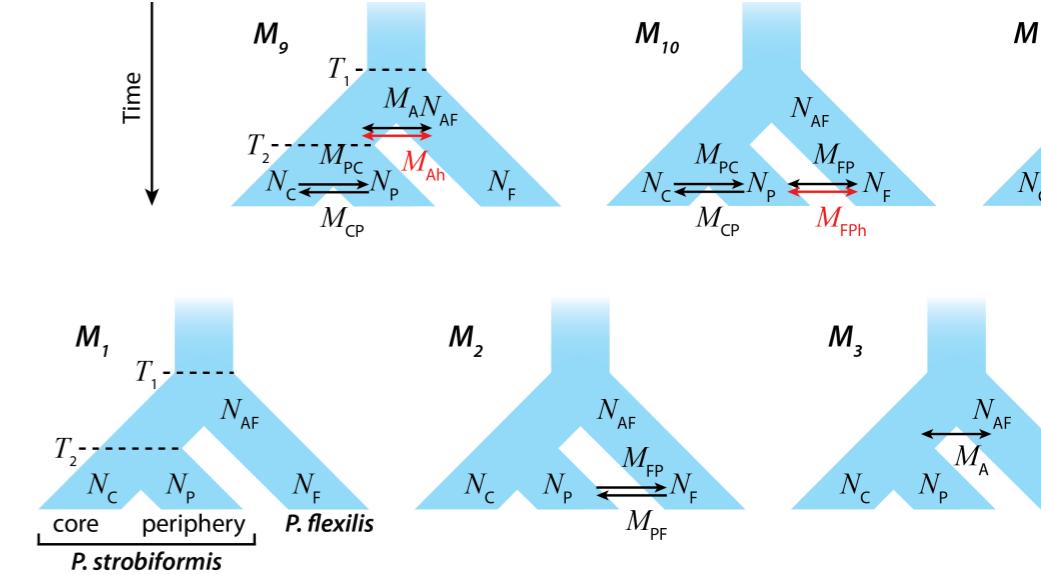
(majors)

Course Description: This course introduces biology majors to basic concepts in classical and modern genetics, including population genetics, quantitative genetics, and evolutionary genetics. Genetics is an active and growing field of research that has produced many breakthrough discoveries in understanding the origin, function, and evolution of living things, with applications to... [Read more >](#)





P. strobiformis



P. strobiformis

Statistical Phylogenetics & Phylogeography

(graduate)

Course Description: Statistical phylogenetics and phylogeography are relatively young fields of research spawned by the last 30 years of advances in DNA sequencing/genomics, phylogenetic systematics, statistical population genetics, and computational biology. [Read more >](#)

P. strobiformis

P. flexilis

P. strobiformis

P.