



1. Population Growth: demography, life tables, age-specific functions, Leslie Matrix, exponential growth, logistic equation, density dependence, population regulation, stock-recruitment
2. Environmental Fluctuation and Demographic Stochasticity: environmental stochasticity, density independence, seasonality and pulsing, Moran effect
3. Metapopulations and Trait-based Approaches: spatially structured models, dispersal, individual-based models, bienergetics
4. Life History Variation: reproductive tactics, senescence, r/k selection, bet hedging, habitat templates, adaptive surfaces
5. Niche, Species Interactions: niche concepts, Lotka-Volterra competition model
6. Species Interactions: predation, parasitism, applications of population ecology for natural resource management

**Americans with Disabilities Act (ADA) Policy Statement**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in Cain Hall or call 845-1637.

**Academic Integrity Statements**

**AGGIE HONOR CODE**

“An Aggie does not lie, cheat, or steal or tolerate those who do.”

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System.

For additional information please visit: <http://www.tamu.edu/aggiehonor/>