

Ecology Challenges:

In your lab groups go through the list of challenging items and take notes from each other. Feel free to use the book. Expect to be called upon to explain any of these or to ask more direct questions. Remember participation in discussions increases your comprehension and is required for the group to achieve greater success. Participation will be graded. Everyone had different challenges, so several folks should be able to speak up!

<p>Ch 51: hamilton's rule</p> <p>Inclusive fitness</p> <p>Taxis/Kinesis</p> <p>Intersexual vs. intrasexual Selection</p> <p>Spatial</p> <p>Associative learning</p> <p>Game Theory Applications</p>	<p>Ch 52 Oceanic Zones</p> <p>oligotrophic vs</p> <p>eutrophic</p> <p>Stratification of lakes and oceans</p>	<p>Ch 53 Mark Recapture Method</p> <p>how are semelparity/iteroparity different than K and r selection?</p> <p>examples of populations with density-dependent birth rate and density-independent death rate, and density-independent birth rates and density-dependent death rates</p> <p>logistic growth model -</p> <p>how to interpret life tables</p> <p>Instantaneous growth VS Maximum growth</p> <p>Calculating global carrying capacity in terms of photosynthesis</p>
<p>Ch 54 Shannon Diversity Index</p> <p>how allopatric vs</p> <p>sympatric affects character displacement</p> <p>evapotranspiration and potential evapotranspiration</p> <p>Keystone Species</p>	<p>Ch 55 Nutrient cycles</p> <p>Green world hypothesis</p> <p>turnover time equation</p> <p>production efficiency</p> <p>GPP vs NPP</p> <p>Cause of biological magnification</p> <p>Nitrogen/ phosphorus cycles</p>	<p>Ch 56 Negative effect of increased edge environments</p> <p>Effective population size</p>

Island equilibrium model		
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