What is ecology?

- Many definitions
  - One for us?
  - Environment…

Ecology is a diverse science

- Plant ecology
- Animal ecology
- Molecular ecology
- Physiological ecology
- Population ecology
- Community ecology
- Ecosystem ecology
- Landscape ecology
- Conservation ecology
- Restoration ecology

Ecological experiments

<table>
<thead>
<tr>
<th>Where should we conduct experiments?</th>
<th>Pros</th>
<th>Cons</th>
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</thead>
<tbody>
<tr>
<td>Laboratory</td>
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<td>Field</td>
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</tbody>
</table>
Conducting ecological experiments

- Short-term vs. long-term
- Spatial scale; replication

Mesocosms
Limno-corral
Kiddie pool ecology?
Greenhouse
Microcosms