

# Biology Boot Camp Schedule

## Day 1: Chemistry of Life

### ***Supplies***

- Backpack totes with composition notebook, pencils, magnifying glass, pH paper, sample collection jars, pipettes, zip-top bags
- Frog cards
- Black bin for compost
- Properties of water handout
- pH test strips, thermometers, electronic probes if we have them
- Acid and Base lab supplies (Doc: ADE Acids and Bases -materials)

### ***Schedule***

#### **AM: Nature Center**

- 8:00 – 8:30: Froggy ice breaker and Introductions (Doc: Frog Cards)
- 8:30 – 9:00: Field Notebook (Doc: Field Notebook Instructions)
- 9:00 – 10:00: DTAMS
- 10:00 – 12:00: Field work at the Spring pond: measure water quality parameters (pH, and temperature) (Doc: Properties of Water). Streamside instruction on properties of water

#### **12:00 – 1:00: Lunch - provided**

Start compost pile from lunch remains; bring beverage to NPC to test pH

#### **PM: NPC**

- 1:20 – 1:30: Measure seedling's growth and record details (Doc: Seedling Activity) *Location: Symposium*
- 1:30 – 2:30: Chemistry Lecture (Dr. Hodgkins) – *Location: Symposium*
- 2:30 – 4:30: Acid and bases lab (Doc: ADE Grant – Acids and Bases) *Location: PC 102 & PC 104*
- 4:30 – 5:00: Wrap up discussion, address any student questions. If time permits assign a minute paper: What is the significance of pH to living organisms?