

2012 Life Science Field Training Institute

Program Syllabus

Monday, June 25 *Meet at Pinelands Preservation Alliance*

- 8:30 – 9:00am **Welcome and Introductions**
- 9:00 – 9:30 **Pine Barrens Overview**
- 9:30 – 10:30am **Introduction to Field Studies and Basic Principles of Ecology**
- 10:30 – 10:45am **Break**
- 10:45am – 12:15pm **Connecting Abiotic and Biotic Factors in Ecosystems
Plant Richness Quadrant Study**
- 12:15 – 1:00pm **Lunch**
- 1:00 – 2:30pm **Basic Principles of Statistics and Data Analysis and Display
Use of Excel and Graphing Calculators**
- 2:30 – 2:45pm **Break**
- 2:45 – 4:00pm **Introduction to Ecotones and Setting Pitfall Traps**

Tuesday, June 26 *Meet at Pinelands Preservation Alliance*

- 8:30 – 10:30am **Collection of Pitfall Traps and Identification of Invertebrates
Analysis, Discussion and Display of Data**
- 10:30 – 10:45am **Break**
- 10:45am – 12:15pm **Introduction to Population Ecology**
- 12:15 – 1:00pm **Lunch**
- 1:00 – 2:30pm **Collection of Population Data (Wildflowers and/or Invertebrates)**
- 2:30 – 2:45pm **Break**
- 2:45 – 4:00pm **Analysis and Discussion of Population Data**

Wed., June 27 *Meet at Adam's Canoe Rental*

- 8:00am **Depart Adam's Canoe Rental for Paddle on the Batsto River**
- 8:30am – 3:30pm **Canoe Trip – Flora and Fauna of the Pine Barrens
Data Collection, Taxonomy Studies and Field Journals**
- 4:00pm **Arrive back at Adam's Canoe Rental**

Thurs., June 28 *Meet at Pinelands Preservation Alliance – carpool to Rutgers Pinelands Field Station*

8:00am Meet at PPA

8:30 – 9:30am **Tour of the Rutgers Field Station**

9:30 – 11:30am **Forestry Study; Tools of the Forest Ecologist
Comparing Oak and Pine Tree Data; Height, Diameter, Wood Volume,
Age and # logs**

11:30am – 12:30pm Lunch

12:30 – 2:30pm **Disturbance and Community Ecology – Species Area Curves**

2:30pm Return to PPA

3:00 – 4:00pm **Analysis of Forestry and Species Area Curve Data**

Friday, June 29 *Meet at Pinelands Preservation Alliance – carpool to Brendan Byrne SF, Pakim Pond*

8:00am Meet at PPA

8:30 – 10:15am **Fish Population Study – Removal Sampling at Pakim Pond**

10:15 – 10:30am Break

10:30 – 11:00am **Review and Discussion of Data**

11:00am Travel to the Franklin Parker Preserve, Chatsworth

11:30am – 12:30pm Lunch

12:30 – 2:30pm **Ecological Restoration and Applications of Community and
Population Ecology**

2:30pm Return to PPA

3:00 – 4:00pm **Discussion and Analysis of Fish Population Study and Ecological
Restoration Assessment**

4:00pm **Wrap Up and Graduation**

**All times are approximate*

*** Sequence of Investigations may change due to weather or other factors*



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www.bonazzifoundation.org

