

Landscape IPM, PMA 4242, Section 9431 (3 credit hours)  
University of Florida - Fort Lauderdale  
<http://grove.ufl.edu/~turf/landscapeIPM/>  
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## Outline of topics

- A. Ecology
  - 1. Adaptation
  - 2. Competition
  - 3. Exponential growth of populations
  - 4. Predator-prey model
  - 5. Natural selection
  - 6. Early ideas of habitat disturbance
- B. History of IPM
  - 1. Before synthetic organic compounds, before the Haber process, 1908
  - 2. Better Living through Chemistry, DuPont, 1939
  - 3. Silent Spring, September 1962
  - 4. Earth Day, April 22, 1970
  - 5. The EPA, United States Environmental Protection Agency, Dec. 2, 1970
- C. Non-pesticidal control
  - 1. Cultural practices, e.g., cultural management of weeds
  - 2. Biological control (classical, augmentive, etc.)
  - 3. Genetic resistance
  - 4. Biopesticides
- D. Integrated management
  - 1. Research: pest tolerance levels and economic thresholds
  - 2. Monitoring
  - 3. Record keeping
  - 4. Communications: public perceptions, public relations
  - 5. The gap between hope and reality