2011 COURSE SYLLABUS

EFB 340 Forest and Shade Tree Pathology

COURSE SYLLABUS

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| **Week No.** | **Lecture No.** | Date | **Lecture topic** | **Lab topic** | **Assigned readings** |
| 1 | 1 | 1/18 | Course intro, Disease, Koch’s rules, Phoenix helix | Fungi I | 1(pp 1-17)  2, 3, 4 (pp 1-11 & 42-57), 5 |
|  | 2 | 1/20 | Intro to fungi |  |  |
| 2 | 3 | 1/25 | Fungi continued | Fungi II |  |
|  | 4 | 1/27 | Wood anatomy |  | 1 (pp. 225-292) |
| 3 | 5 | 2/01 | Wood decay | Wood Decay I  Decay expt. |  |
|  | 6 | 2/03 | Wood decay |  |  |
| 4 | 7 | 2/08 | Wood decay & stains | Wood decay II Quiz 1: Fungi | 6 |
|  | 8 | 2/10 | Root diseases |  | 1 (pp. 293-311) |
| 5 | 9 | 2/15 | Root diseases continued | Root Diseases | 7,8 |
|  | 10 | 2/17 | Mycorrhizae |  | 9 (pp. 373-390) |
| 6 | 11 | 2/22 | Nursery Diseases | **Quiz 2: decay**  Foliage diseases | 1 (pp. 370-376)  10 |
|  | 12 | 2/24 | Foliage diseases |  | 1 (pp. 134-156) |
| 7 | 13 | 3/01 | Foliage diseases | Pathogen ID lab | 11 |
|  | 14 | 3/03 | **Exam 1: lectures 1-10** |  |  |
| 8 | 15 | 3/08 | Rusts | Rust Fungi  **Quiz 3: Root diseases** | 1 (pp. 157-181) |
|  | 16 | 3/10 | Rusts |  | 12 |
| 9 |  |  | **Spring Break 3/13-20** |  |  |
| 10 | 17 | 3/22 | Cankers | Cankers | 1 (pp. 183-208) |
|  | 18 | 3/24 | Cankers |  |  |
| 11 | 19 | 3/29 | Wilts | Wilts, mistletoes & DED pathogen comparison exercise.  **Quiz 4: Foliage/rusts** | 1 (pp 209-223) |
|  | 20 | 3/31 | Wilts |  | 13, 14 |
| 12 | 21 | 4/05 | **Exam 2: lecs 11-20** | Viruses & bacteria  Results: Pathogen Comparison Expt.  Results: Wood Decay Expt. |  |
|  | 22 | 4/07 | Mistletoes |  | 15 |
| 13 | 23 | 4/12 | Phytoplasma & other bacteria | Epidemiology and Baseline Mortality  Results: Virus and DED exercises | 1 (pp. 349-360)  16, 17, 18, 19 |
|  | 24 | 4/14 | Viruses |  | 20 |
| 14 | 25 | 4/19 | Decline diseases | Declines & Abiotic Diseases  Results: DED culturing exercise | 1 (pp.328-348)  21 |
|  | 26 | 4/21 | Abiotic diseases |  | 1 (pp.18-51),  22,23,24 |
| 15 | 27 | 4/26 | Pathogens & Forest Communities | Field tripField Quiz 5 | 25 |
|  | 28 | 4/28 | Disease impacts on wildlife |  | 26, 27 |
| 16 | 29 | 5/03 | Forest health revisited | No Lab | 28, 29 |