2012 COURSE SYLLABUS

EFB 340 Forest and Shade Tree Pathology

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| **Week No.** | **Lecture No.** | Date | **Lecture topic** | **Lab topic** | **Assigned readings** |
| 1 | 1 | 1/17 | Course intro, Disease, Koch’s rules, Phoenix helix | Fungi I | 1(chs 1, 4 & 5)  2 (pp 1-11 & 42-57) |
|  | 2 | 1/19 | Intro to fungi |  | 3 |
| 2 | 3 | 1/24 | Fungi continued | Fungi II |  |
|  | 4 | 1/26 | Wood anatomy |  |  |
| 3 | 5 | 1/31 | Wood decay | Wood Decay I  Decay expt. | 4 (Chs. 14 & 15) |
|  | 6 | 2/02 | Wood decay |  |  |
| 4 | 7 | 2/07 | Wood decay & stains | Wood decay II Quiz 1: Fungi | 5 |
|  | 8 | 2/09 | Root diseases |  | 6 (Ch. 16) |
| 5 | 9 | 2/14 | Root diseases continued | Root Diseases | 7,8 |
|  | 10 | 2/16 | Mycorrhizae |  | 1 (Ch. 6) & 9 |
| 6 | 11 | 2/21 | Nursery Diseases | **Quiz 2: decay**  Foliage diseases | 10 (Ch. 21) & 11 |
|  | 12 | 2/23 | Foliage diseases |  | 12 (Ch. 10) |
| 7 | 13 | 2/28 | Foliage diseases | Pathogen ID lab | 13 |
|  | 14 | 3/01 | **Exam 1: lectures 1-10** |  |  |
| 8 | 15 | 3/06 | Rusts | Rust Fungi  **Quiz 3: Root diseases** | 14 |
|  | 16 | 3/08 | Rusts |  |  |
| 9 |  |  | **Spring Break 3/11-18** |  |  |
| 10 | 17 | 3/20 | Cankers | Cankers | 15 |
|  | 18 | 3/22 | Cankers |  | 16 |
| 11 | 19 | 3/27 | Wilts | Wilts, mistletoes & DED pathogen comparison exercise.  **Quiz 4: Foliage/rusts** | 17 & 18 |
|  | 20 | 3/29 | Wilts |  |  |
| 12 | 21 | 4/03 | **Exam 2: lecs 11-20** | Viruses & bacteria  Results: Pathogen Comparison Expt.  Results: Wood Decay Expt. |  |
|  | 22 | 4/05 | Mistletoes |  | 19 |
| 13 | 23 | 4/10 | Phytoplasma & other bacteria | Epidemiology and Baseline Mortality  Results: Virus and DED exercises | 1 (Chs 2,3, &10)  20(Ch 19)  21 |
|  | 24 | 4/12 | Viruses |  | 21 |
| 14 | 25 | 4/17 | Decline diseases | Declines & Abiotic Diseases  Results: DED culturing exercise | 1 (Ch. 4)  22 |
|  | 26 | 4/19 | Abiotic diseases |  | 1 (Ch. 7)  23, 24 |
| 15 | 27 | 4/24 | Pathogens & Forest Communities | Field tripField Quiz 5 | 25 |
|  | 28 | 4/26 | Disease impacts on wildlife |  | (1, Ch. 9)  26 |
| 16 | 29 | 5/01 | Forest health revisited | No Lab | (1, Chs. 10 & 11) |