

# **NRM 452: FOREST HEALTH AND PROTECTION**

**Spring Semester 2014**

## **COURSE SYLLABUS**

### **CLASSES**

Lectures and discussions, Tuesdays, 3:30 pm to 6:30 pm, AHRB 1W05 Horticulture Teaching Lab.

### **INSTRUCTOR**

Dr. Jenifer Huang McBeath  
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### **OFFICE HOURS**

Monday and Wednesday 11:30 am—1:30 pm. and by appointment

### **SCOPE AND LEARNING OBJECTIVES**

Diseases, insects and fire are major natural disturbance agents affecting forest ecosystems. The course on forest protection covers three large fields of study: forest pathology, fire science and entomology, which typically are taught as three separate courses. The primary objectives of this course are to introduce students to the concepts of forest health, and illustrate how the health of forest ecosystems is influenced by the interaction of diseases, insects and fire, as well as by other biotic (human activities) and abiotic (wind, pollutions, etc.) factors. More specifically, students will gain an understanding of: 1) the causes of forest health issues; 2) how to recognize the signs and symptoms of insects and disease problems in the boreal forest, with emphasis on Alaska; 3) how disturbance agents (biotic and abiotic) interact to shape forest ecosystems, and 4) practical management systems for protecting forests from these disturbance agents

### **TEXTBOOK**

The primary text for the course is Edmonds, Agee and Gara Forest Health and Protection, (2<sup>nd</sup> edition, 2011)

### **GRADING SYSTEM**



