

**COURSE OUTLINE**  
**FOR 495—Wood Microbiology**  
**Spring Semester**  
**3 Credits**

**Instructor:** Edwin J. Burke  
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**Course Schedule:** Lecture: Time to be announced

Laboratory: Alternate and coincide with the lecture.

**Required Text:** Readings will be made available at the library reserve desk and/or the Wood Science Laboratory reading area.

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<b>Week</b>	<b>TOPIC</b>
2	Introduction; Biotic and abiotic agents of wood deterioration.
3	Characteristics and Classification of Fungi.
4	Characteristics and Classification of Fungi (cont.). Laboratory exercise in culturing fungi.
5	Growth needs of wood-inhabiting fungi.
6	Examination #1 covering weeks 1-5. Structural, chemical and moisture features of wood.
7	Structural, chemical and moisture features of wood (cont.).
8	General features, signs and effects on wood anatomy of wood decay.
9	SPRING BREAK
10	Examination #2 covering weeks 7-8. Laboratory exercise in microscopic preparation of cultures of decay fungi and specimens of decayed wood.
11	Chemical protection of wood. Discussion of oil-borne and waterborne preservatives and the processes used in treating solid wood.
12	Tour of preservative Bouma treatment plant in Lincoln, MT (full-day trip).
13	Examination #3 covering weeks 9 – 12. Laboratory work in fungal identification and microscopic examination of decayed wood.
14	Laboratory work in fungal identification and microscopic examination of sapwood-

stained wood.

- 15 Laboratory work in fungal identification and microscopic examination of decayed and stained wood. Examination and evaluation of stages of wood decay.
- 16 FINALS WEEK- Lecture and Laboratory finals covering entire semester during 2, 1-hour period.

Course grading will be as follows:

(3) 1-hour lecture exams	300
(1) 1-hour final Laboratory exam	100
(1) 1-hour final Lecture exam	<u>100</u>
<b>Total Points for the Course</b>	<b>500</b>

**A**= 450-500; **B**= 400-449; **C**= 350-399; **D**= 300-349; **F**< 300