

## **ECE 228A**

### **Fiber Optics**

**Instructor:** Professor Dan Blumenthal

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**Lecture:** Tu/Th 10:00am-Noon; Makeup Lectures Fridays 10:00am - Noon

**Office Hours:** TBD

**Course Objective:** To develop fundamentals of light propagation and amplification in optical fibers and digital transmission in optical amplified links. To understand the evolution of fiber optic links, the underlying technologies and inherent performance limitations.

**Prerequisites:** Undergraduate EM propagation theory and semiconductor physics.

**Textbook:** Class Notes

**Reference:** Fiber Optic Communication Systems, Third Edition, 2002, G. P. Agrawal, Wiley Series in Microwave and Optical Engineering, ISBN 0-471-21571-6

**Exams:** One midterm and one final

**Homework:** Assigned weekly each Tues in class. Due following Thurs. Late policy: 10% per day late, maximum 3 days late. No grade for more than 3 days late.

**Grading:**

Homework: 30%

Midterm: 30%

Final: 40%