

ECE228B
Fiber Optic Components and Systems

Planned lectures, subject to change at Instructor's discretion

Lecture	Subject
1	Overview of Communications Links. Multiplexing Techniques and Modulation
2	Photodetection and Photodetectors
3	Photodetectors
4	Semiconductor Laser Theory
5	Single Mode Laser Designs
6	Wavelength Tunable Lasers
7	Pulsed and Modelocked Lasers, Intro to Optical amplifiers: Materials
8	Optical amplifiers: EDFAs
9	Optical amplifiers: EDFAs and Raman
10	Optical Amplifiers: SOA and Gain Clamped
11	Wavelength converters
12	Optical regenerators
	Midterm
13	Optical multiplexers, demultiplexers and AWGRs and Optical switches
14	Dispersion Compensation and Receiver Design
15	Advanced transmission link design and performance