BIO-567 Syllabus (2021)

Week	Subject
1	The "Brain of the cell", Signaling the Network with Energy
2	Basic Equipment: G-Proteins, Second Messengers, and Protein Kinases
3	Signal Transduction by Receptors with Seven Transmembrane Domains
4	Signal Transduction by Serine/Threonine Kinase-Coupled Receptors
	Signal Transduction by Tyrosine Kinase- and Protein Phosphatase-Coupled
5	Receptors
6	Eukaryotic Gene Transcription: The Ultimate Target of Signal Transduction
7	Signals Controlling mRNA Translation
8	Signal Transduction by Small G-Proteins: The Art of Molecular Targeting
9	Mitogen-activated Protein Kinase and Nuclear Factor кВ Modules
10	Regulation of Cell Division
11	Signal Transduction by Proteolysis, and Programmed Cell Death
12	Signal Transduction by Ions
13	Sensory Signal Processing
14	Signaling at Synapses: Neurotransmitters and their Receptors

Textbook : Cellular Signal Processing: An Introduction to the Molecular Mechanisms of Signal Transduction. Friedrich Marks, Ursula Klingmuller, Karin Muller-Decker ISBN 0-8153-4215-2