

464 BCH Topics		
List of Topics	No. of Weeks	Contact Hours
Introduction to Gene expression regulation	1	1.67
Organization of genes within nucleus	0.5	0.83
Chromatin structure, DNA sequence elements	0.5	0.83
The machinery: RNA polymerases	1	1.67
The regulators: transcriptional activators and repressors	1	1.67
The operon model and phage strategies	1	1.67
Post-transcriptional regulation	1	1.67
Protein biosynthesis: degradation and regulation of gene expression	2	3.33
Translation regulation of gene expression	1	1.67
Epigenetic regulation: DNA methylation and histone modification	1	1.67
Metabolic regulation of gene expression	1	1.67
Gene expression during differentiation	1	1.67
Gene regulation and human disease	1	1.67
Gene expression profiling methods	1	1.67
Total	14	23.36