

BCH 6415 – Spring 2021
Lecture Schedule

<u>DATE</u>	<u>DAY</u>	<u>TOPIC</u>	<u>INSTRUCTOR</u>
Jan 11	Mon	Technology/Methodology	Dr. Lu
Jan 13	Wed	Nucleosomes & Chromatin	Dr. Lu
Jan 15	Fri	Basal Transcription/RNA Pol II	Dr. Bungert
Jan 18	Mon	NO CLASSES – MARTIN LUTHER KING DAY	
Jan 20	Wed	Transcription Elongation I	Dr. Bungert
Jan 22	Fri	Transcription Elongation II	Dr. Bungert
Jan 25	Mon	Chromatin Remodeling I	Dr. Kladde
Jan 27	Wed	Chromatin Remodeling II	Dr. Kladde
Jan 29	Fri	Histone Modifications I	Dr. Lu
Feb 1	Mon	Histone Modifications II	Dr. Lu
Feb 3	Wed	DNA Methylation & Epigenetic Regulation I	Dr. Lu
Feb 5	Fri	DNA Methylation & Epigenetic Regulation II	Dr. Lu
Feb 8	Mon	Transcription Activation/Co-Activators/Co-Repressors	Dr. Bungert
Feb 10	Wed	Super Enhancers/Locus Control Regions	Dr. Bungert
Feb 12	Fri	Nuclear Organization/TAD/Transcription Factories	Dr. Lu
Feb 15	Mon	Review Session for Exam 1	
Feb 17	Wed	Gene Regulation by Long Non-Coding RNA's	Dr. Kladde
Feb 18	Thr	<u>EXAM 1 – 6:00-8:00 p.m.; Lectures 1/11 through 2/12 (14 lectures)</u>	
Feb 19	Fri	Pol I and Pol III Transcription	Dr. Kladde
Feb 22	Mon	RNA Processing I – Capping, Polyadenylation	Dr. Berglund
Feb 24	Wed	RNA Processing II – RNA Stability and Turnover	Dr. Berglund
Feb 26	Fri	RNA modifications/epitranscriptome	Dr. Berglund
March 1	Mon	RNA Splicing I	Dr. Xie
March 3	Wed	RNA Splicing II	Dr. Xie
March 5	Fri	Protein Synthesis I	Dr. Gumz
March 8	Mon	Protein Synthesis II	Dr. Gumz
March 10	Wed	Post-Translational Regulation	Dr. Gumz
March 12	Fri	RNAi & Micro RNA's	Dr. Xie
March 15	Mon	DNA Replication: DNA synthesis and fidelity	Dr. Bloom
March 17	Wed	DNA Replication: Polymerases at the fork	Dr. Bloom
March 19	Fri	DNA Replication: Unwinding DNA	Dr. Bloom
March 22	Mon	Review Session for Exam 2	
March 24	Wed	DNA Replication: Replicating chromatin and ends	Dr. Bloom
March 25	Thr	<u>EXAM 2 – 6:00-8:00 p.m.; Lectures 2/17 through 3/17 (13 lectures)</u>	
March 26	Fri	DNA Replication: Initiation of Replication	Dr. Bloom
March 29	Mon	Mismatch Repair	Dr. Çağlayan
March 31	Wed	DNA Repair: DNA base damage & base excision repair	Dr. Çağlayan
April 2	Fri	DNA Repair: Nucleotide excision repair	Dr. Bloom
April 5	Mon	DNA Repair: Double-strand breaks & DSB Repair	Dr. Çağlayan
April 7	Wed	DNA Repair: Homologous Recombination	Dr. Çağlayan
April 9	Fri	DNA Damage Tolerance I	Dr. Bloom
April 12	Mon	DNA Damage Tolerance II	Dr. Bloom
April 14	Wed	Cell Cycle Checkpoints & DNA Damage Response	Dr. Bloom
April 16	Fri	Viral Replication I	Dr. Flanagan
April 19	Mon	Viral Replication II	Dr. Flanagan
April 21	Wed	Review Session for Exam 3	
April 26	Mon	<u>EXAM 3 - 6:00 - 8:00 p.m.; Lectures 3/19 through 4/21 (13 lectures)</u>	