



## **Student Responsibilities:**

**Participation:** Students are encouraged to attend lectures and discussion and to actively participate by asking questions, suggesting solutions, and helping their fellow students learn. Attendance will not be taken. However, please respect your fellow students by being on time.

Clicker questions will be used to test understanding during lecture, but participation is not mandatory.

**Collaboration & Academic Honesty:** Students are encouraged to discuss and work on problems together, but must submit their own, original solutions and explanations for any assignments and exams.

**Plagiarism and other academic dishonesty will *not* be tolerated.**

## COURSE SCHEDULE

Week	Lecture Dates	Weekly Topics	Assignments + Exams
1	1/8 1/10 1/12	Course overview Recombinant DNA technology	
2	1/17 1/19	<b>No class on 1/15</b> Chemical DNA synthesis & sequencing Manipulation of gene expression	
3	1/22 1/24 1/26	Protein production & purification Mutagenesis & protein engineering	Homework 1 due 1/26
4	1/29 1/31 2/2	Protein therapeutics Commercial product engineering	
5	2/5 2/7 2/9	Vaccine development Midterm Review	Homework 2 due 2/9
6	2/12 2/14 2/16	<b>Midterm Examination on 2/12</b> Nucleic acid therapies & DNA technology Molecular diagnostics	<b>Midterm Exam on 2/12</b>
7	2/21 2/23	<b>No class on 2/19</b> Bioremediation and biomass utilization Genetic engineering of plants	
8	2/26 2/28 3/2	The human genome Gene therapy	Homework 3 due 3/2
9	3/5 3/7 3/9	Personalized medicine CAR-T	
10	3/12 3/14 3/16	Ethical issues in biotechnology Final Review	Homework 4 due 3/16
11	3/21	<b>Final Examination 7:00pm – 10:00pm Wednesday, March 21</b>	<b>FINAL EXAM</b>