

SYLLABUS

| <u>Lecture</u> | <u>Day</u> | <u>Date</u> | <u>Topic</u> | <u>Chapter</u> | <u>Pages</u> |
|----------------|------------|-------------|--|--------------------|--|
| 1 | M | 4/2 | Monohybrid crosses | 2 | 27-34 |
| 2 | W | 4/4 | Dihybrid crosses, Probabilities | 2 | 35-40 |
| 3 | F | 4/6 | Pedigrees, Sex Linkage | 2 | 42-57 |
| 4 | M | 4/9 | Mitosis/Meiosis | 3 | 74-76; 91-95 |
| 5 | W | 4/11 | Chromosomal Theory of Inheritance; Chromosome structure | 3 10 | 76-90 322-326 |
| 6 | F | 4/13 | Gene linkage | 4 | 116-120 |
| 7 | M | 4/16 | Gene linkage | 4 | 121-127; 40-42; 131-133 |
| 8 | W | 4/18 | Haploid genetics | 3 | 96-103 |
| 9 | F | 4/20 | review | | |
| 10 | M | 4/23 | MIDTERM I | 5-7 pm | |
| 11 | W | 4/25 | Bacterial Genetics | 5 | 152-157 |
| 12 | F | 4/27 | Conjugation | 5 | 157-165 |
| 13 | M | 4/30 | Transduction | 5 | 166-170 |
| 14 | W | 5/2 | Phage genetics/Biochemical genetics | 5; 6 | 170-174; 186-192 |
| 15 | F | 5/4 | Allele relationships | 6 | 192-209 |
| 16 | M | 5/7 | Complementation/epistasis | 6 | Cont. |
| 17 | W | 5/9 | Complementation/recombination | 6 | Cont. |
| 18 | F | 5/11 | review | | |
| 19 | M | 5/14 | MIDTERM II | 5-7 pm | |
| 20 | W | 5/16 | Population Genetics | 19 | 621-624 |
| 21 | F | 5/18 | Population Genetics | | |
| 22 | M | 5/21 | Transposable elements | 13 | 424-425, 429-436 440-446 |
| 23 | W | 5/23 | Chromosomal rearrangements Ex. Human diseases | 15 | 482-484; 490-508 504-505 |
| 24 | F | 5/25 | Point mutations Molecular Markers | 14 2 3 11 | 452-457 46-48 127-128 364-366 |
| | M | 5/28 | MEMORIAL DAY | | |
| 25 | W | 5/30 | DNA Fingerprinting | 12 | 398-401 |
| 26 | F | 6/1 | Positional cloning, gene replacement | 11 | 354-357; 366-379 |
| 27 | M | 6/4 | RNAi, Gene Therapy | | |
| 28 | W | 6/6 | TBA | | |
| 29 | F | 6/8 | review | | |
| | M | 6/11 | FINAL EXAM | | |