

		7.7 Temperature Variation Controls Sex Determination in Reptiles	
27-30	8	Chromosome Mutations: Variation in Chromosomes Number and Arrangement 8.1. Variation in Chromosome Number: Terminology and Origin 8.2. Monosomy and Trisomy Result in a Variety of Phenotypic Effects 8.3. Polyploidy, In Which More than Two Haploid Sets of Chromosomes are Present, is Prevalent in Plants 8.4. Variation Occurs in the Composition and Arrangement of Chromosomes 8.5. A Deletion is a Missing Region of a Chromosome 8.6. A Duplication is a Repeated Segment of a Chromosome 8.7. Inversions Rearrange the Linear Gene Sequence 8.8. Translocations Alter the Location of Chromosomal Segments in the Genome 8.9. Fragile Sites in Humans are Susceptible to Chromosome Breakage	222-247
31-32	9	Extranuclear Inheritance 9.1. Organelle Heredity involves DNA in Chloroplasts and Mitochondria 9.2. Knowledge of Mitochondrial and Chloroplast DNA Helps Explain Organelle Heredity 9.3. Mutations in Mitochondrial DNA Cause Human Disorders 9.4. In Maternal Effect, The Maternal Genotype has a Strong Influence During Early Development	248-264

Text Book:

Concepts of Genetics. Klug, Cummings, Spencer & Palladino 11th Ed. (2016).

Grading Policy:

The lecture part counts for 70% and the laboratory part counts for 30%. The Laboratory part has a separate syllabus.

Exams	Chapters	Date	Grades
Midterm Exam	1, 10, 3, and 4	Tuesday Nov.06.2018	30%
Final Exam	All Chapters	To be announced	40%