

This Biology 3201 Unit 1 review covers somatic cell reproduction, cancer, and reproductive cell formation. Somatic cell reproduction focuses on the cell cycle, mitosis, cytokinesis (differing in plants and animals), and key terms like chromosomes, chromatids, and centrioles. Cancer formation, causes, metastasis, and therapies (surgery, radiation, chemotherapy) are also examined. Reproductive cell formation details meiosis I and II, comparing it to mitosis, focusing on gamete formation (oogenesis and spermatogenesis), haploid/diploid differences, and the role of meiosis in genetic variation. Key terms like homologous chromosomes, tetrads, and synapsis are included. The review requires understanding of each phase of mitosis and meiosis, and the differences between these processes.