# General Biology 1

Bugaring, Maurene Claire P.

# CELL SYSLE

an ordered series of events involving cell growth and cell division that produces two new daughter cells

DOUBLES

# INTERPHASE

- during interphase, the cell undergoes normal growth processes, while also preparing for cell division
- three stages of interphase called Gap 1, Synthesis and Gap 2

# Interphase

 DNA replication can proceed through the mechanisms that result in the formation of identical pairs of DNA

 the centrosome is duplicated during S phase the cell replenishes
its energy stores and
synthesizes proteins
necessary for chromosome
manipulation
 cytoskeleton is dismantled
to provide resources for the
mitotic phase
 there maybe additional
cell growth during second
gap phase

Cell

Growth

DNA

SYNTHESIS

#### Interphase

# MITOTIC PHASE

- mitotic phase, the multistep process during which the duplicated chromosomes are aligned, separated and move to opposite poles of the cell
- there are two portion of mitotic phase, the karyokinesis and cytokinesis

#### Mitosis

 a process that takes place in the nucleus of a dividing cell, involves typically a series of steps consisting of prophase, metaphase, anaphase, and telophase

#### Cytokinesis

 the physical separation of the cytoplasmic components into the two daughter cells

Anaphase



# Interphase

- in this stage the cell is accumulating the building blocks of chromosomal DNA
- also in this phase, the cell grows physically larger

Prophase =

Interphase

Metaphase



Cell Growth



Maurene Claire Pita Bugaring

# **Biology Guide Cell Cycle**

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