

EXAM 2 Biology Mastery Study Guide Fall 2024

Relevant lectures: 8-12

Relevant modules: Module 3 and Module 4

Openstax readings: (See module 2 and module 3 in canvas)

Focus your preparation on the practice exams, clicker questions, and open stax (in that order)

CELLS AND THEIR STRUCTURES:

1. State the size range of most prokaryotic and eukaryotic cells
2. Explain how eukaryotic cells evolved from the process of endosymbiosis
3. Explain Cell Theory
4. Identify from a diagram, and know the function of structures found within a prokaryotic cell (refer to required cell structure list and diagrams) - **on your own outside of lecture**
5. Identify from a diagram, and know the function of structures found within a eukaryotic cell (refer to required cell structure list and diagrams) - **on your own outside of lecture**
6. Distinguish between structures that are found in animal cells, plant cells, and prokaryotic cells (refer to required cell structure list and diagrams) - **on your own outside of lecture**

THE PLASMA MEMBRANE AND CELLULAR TRANSPORT:

1. Explain why phospholipid molecules form a bilayer structure in living systems
2. Identify the five of the major molecular components of a cell membrane, describe their molecular makeup, and give their functions:
 - phospholipids*
 - cholesterol*
 - proteins*
 - glycoproteins*
 - glycolipids*
3. Define *passive transport*, *diffusion*, *osmosis*, *facilitated diffusion*, *active transport*
4. Determine when and why each type of membrane transport would be used
5. Predict how a substance would enter or exit a cell based on its molecular structure/composition
6. Define *hypotonic*, *isotonic*, *hypertonic*, *osmosis*
7. Use the terms *hypotonic*, *isotonic*, and *hypertonic* to describe how both plant and animal cells will interact with different environments
8. Use molecular-level diagrams to illustrate the concepts of *hypotonic*, *isotonic*, and *hypertonic*

CELL CYCLE:

1. Explain what the Cell Cycle is.
2. Describe what happens during the various parts of interphase during the life of a cell (*G1*, *S*, *G2*).

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J Rink



Fall Interim Assessment Study Guide Biology:

Resources in Education ,1995 **Peterson's Guide to Graduate Programs in the Biological Sciences 1997**

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complete reference book to American colleges and universities for use by students parents teachers and guidance counselors

Graduate Programs in the Humanities, Arts and Social Sciences 2008 Peterson's Guides Staff,Peterson's,2007-11

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ERIC Educational Documents Index, 1966-69: Major descriptors ,1970 **ERIC Educational Documents Index,**

1966-1969: Minor descriptors. Author index CCM Information Corporation,1970 Research in Education ,1972

Peterson's Guide to Graduate and Professional Programs, an Overview ,1990 **Resources in Education** ,1997

Title Index, ERIC ED Accessions File ERIC Processing and Reference Facility,1966 *Graduate & Professional*

Programs 1994 Editors of peterson's guides,1994

Graduate Programs in Business, Education, Health, Information

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Four-Year Colleges 1988 Peterson,1987-07 **The British National Bibliography** Arthur James Wells,2000
Exceptional Child Education Abstracts ,1972 *Current Index to Journals in Education* ,1999 **University of**
Colorado Bulletin ,1913

Adopting the Track of Term: An Emotional Symphony within **Fall Interim Assessment Study Guide Biology**

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