BI 112 - Cell Biology for Health Occupations

OER Text Resources

Updated 9/20/2019

# Introduction and Organizing Principles

[https://cnx.org/contents/FPtK1zmh@15.1:raNQgZ7E@6/1-1-Overview-of-Anatomy-and-Physiology](https://cnx.org/contents/FPtK1zmh%4015.1%3AraNQgZ7E%406/1-1-Overview-of-Anatomy-and-Physiology)

[https://cnx.org/contents/FPtK1zmh@15.1:Xh\_25wmA@10/1-2-Structural-Organization-of-the-Human-Body](https://cnx.org/contents/FPtK1zmh%4015.1%3AXh_25wmA%4010/1-2-Structural-Organization-of-the-Human-Body)

# Homeostasis

[https://cnx.org/contents/FPtK1zmh@15.1:8Q\_5pQQo@7/1-5-Homeostasis](https://cnx.org/contents/FPtK1zmh%4015.1%3A8Q_5pQQo%407/1-5-Homeostasis)

# Matter, Elements, Atoms

[https://cnx.org/contents/FPtK1zmh@15.1:uC1BEgbn@7/2-1-Elements-and-Atoms-The-Building-Blocks-of-Matter](https://cnx.org/contents/FPtK1zmh%4015.1%3AuC1BEgbn%407/2-1-Elements-and-Atoms-The-Building-Blocks-of-Matter)

[https://cnx.org/contents/FPtK1zmh@15.1:LGDgcnZl@8/2-2-Chemical-Bonds](https://cnx.org/contents/FPtK1zmh%4015.1%3ALGDgcnZl%408/2-2-Chemical-Bonds)

# Bonding and Chemical Notation

[https://cnx.org/contents/FPtK1zmh@15.1:LGDgcnZl@8/2-2-Chemical-Bonds](https://cnx.org/contents/FPtK1zmh%4015.1%3ALGDgcnZl%408/2-2-Chemical-Bonds)

# Balancing Equations

[https://cnx.org/contents/RTmuIxzM@9.17:OPUZErIh@23/Writing-and-Balancing-Chemical-Equations](https://cnx.org/contents/RTmuIxzM%409.17%3AOPUZErIh%4023/Writing-and-Balancing-Chemical-Equations)

# Types of Energy

[https://cnx.org/contents/FPtK1zmh@15.1:oZea9ldh@7/2-3-Chemical-Reactions](https://cnx.org/contents/FPtK1zmh%4015.1%3AoZea9ldh%407/2-3-Chemical-Reactions)

# Properties of Water

[https://cnx.org/contents/jVCgr5SL@15.3:fi0N3nsv@11/2-2-Water](https://cnx.org/contents/jVCgr5SL%4015.3%3Afi0N3nsv%4011/2-2-Water)

# Solutions, Solutes, pH and Buffers

[https://cnx.org/contents/jVCgr5SL@15.3:fi0N3nsv@11/2-2-Water](https://cnx.org/contents/jVCgr5SL%4015.3%3Afi0N3nsv%4011/2-2-Water)

# Biological Molecules

[https://cnx.org/contents/jVCgr5SL@15.3:P\_h13WvU@10/2-3-Carbon](https://cnx.org/contents/jVCgr5SL%4015.3%3AP_h13WvU%4010/2-3-Carbon)

[https://cnx.org/contents/jVCgr5SL@15.3:Ss-nKSug@10/3-1-Synthesis-of-Biological-Macromolecules](https://cnx.org/contents/jVCgr5SL%4015.3%3ASs-nKSug%4010/3-1-Synthesis-of-Biological-Macromolecules)

[https://cnx.org/contents/jVCgr5SL@15.3:pKmvmCbd@10/3-2-Carbohydrates](https://cnx.org/contents/jVCgr5SL%4015.3%3ApKmvmCbd%4010/3-2-Carbohydrates)

[https://cnx.org/contents/jVCgr5SL@15.3:lQpWuQGI@10/3-3-Lipids](https://cnx.org/contents/jVCgr5SL%4015.3%3AlQpWuQGI%4010/3-3-Lipids)

[https://cnx.org/contents/jVCgr5SL@15.3:IRyJF0BE@11/3-4-Proteins](https://cnx.org/contents/jVCgr5SL%4015.3%3AIRyJF0BE%4011/3-4-Proteins)

[https://cnx.org/contents/jVCgr5SL@15.3:EGAbdYfO@10/3-5-Nucleic-Acids](https://cnx.org/contents/jVCgr5SL%4015.3%3AEGAbdYfO%4010/3-5-Nucleic-Acids)

[https://cnx.org/contents/jVCgr5SL@15.3:vzc99fEO@10/6-4-ATP-Adenosine-Triphosphate](https://cnx.org/contents/jVCgr5SL%4015.3%3Avzc99fEO%4010/6-4-ATP-Adenosine-Triphosphate)

# Cell Theory

[https://cnx.org/contents/5ZI71dr1@3.2:CvBDubkf@1/Prokaryotic-and-Eukaryotic-Cells](https://cnx.org/contents/5ZI71dr1%403.2%3ACvBDubkf%401/Prokaryotic-and-Eukaryotic-Cells)

# Cell Membranes and Organelles

[https://cnx.org/contents/jVCgr5SL@15.3:tkYxfIqu@10/5-1-Components-and-Structure](https://cnx.org/contents/jVCgr5SL%4015.3%3AtkYxfIqu%4010/5-1-Components-and-Structure)

[https://cnx.org/contents/5ZI71dr1@3.2:BT9RfVr-@2/A-More-Detailed-Look-at-Eukaryotic-Cells](https://cnx.org/contents/5ZI71dr1%403.2%3ABT9RfVr-%402/A-More-Detailed-Look-at-Eukaryotic-Cells)

# Membrane Permeability, Transport and Osmosis

[https://cnx.org/contents/jVCgr5SL@15.3:xy5C3n\_j@10/5-2-Passive-Transport](https://cnx.org/contents/jVCgr5SL%4015.3%3Axy5C3n_j%4010/5-2-Passive-Transport)

[https://cnx.org/contents/jVCgr5SL@15.3:bluxTC2Z@10/5-3-Active-Transport](https://cnx.org/contents/jVCgr5SL%4015.3%3AbluxTC2Z%4010/5-3-Active-Transport)

[https://cnx.org/contents/jVCgr5SL@15.3:grQX4WRx@10/5-4-Bulk-Transport](https://cnx.org/contents/jVCgr5SL%4015.3%3AgrQX4WRx%4010/5-4-Bulk-Transport)

# DNA and Replication

[https://cnx.org/contents/FPtK1zmh@15.1:9TxHOD3O@8/3-3-The-Nucleus-and-DNA-Replication](https://cnx.org/contents/FPtK1zmh%4015.1%3A9TxHOD3O%408/3-3-The-Nucleus-and-DNA-Replication)

# Protein Synthesis

[https://cnx.org/contents/5ZI71dr1@3.2:utN40dRD@1/Transcription](https://cnx.org/contents/5ZI71dr1%403.2%3AutN40dRD%401/Transcription)

[https://cnx.org/contents/5ZI71dr1@3.2:T\_FNCBJf@2/Translation](https://cnx.org/contents/5ZI71dr1%403.2%3AT_FNCBJf%402/Translation)

# Cell Cycle and Mitosis

[https://cnx.org/contents/jVCgr5SL@15.3:SeU\_rWbd@11/10-2-The-Cell-Cycle](https://cnx.org/contents/jVCgr5SL%4015.3%3ASeU_rWbd%4011/10-2-The-Cell-Cycle)

[https://cnx.org/contents/jVCgr5SL@15.3:1dg9UsAS@11/10-4-Cancer-and-the-Cell-Cycle](https://cnx.org/contents/jVCgr5SL%4015.3%3A1dg9UsAS%4011/10-4-Cancer-and-the-Cell-Cycle)

# Meiosis and Gametogenesis

[https://cnx.org/contents/jVCgr5SL@15.3:WzgNHpon@10/11-1-The-Process-of-Meiosis](https://cnx.org/contents/jVCgr5SL%4015.3%3AWzgNHpon%4010/11-1-The-Process-of-Meiosis)

[https://cnx.org/contents/jVCgr5SL@15.3:AICsdTCp@10/11-2-Sexual-Reproduction](https://cnx.org/contents/jVCgr5SL%4015.3%3AAICsdTCp%4010/11-2-Sexual-Reproduction)

# Genetics and Patterns of Inheritance

[https://cnx.org/contents/jVCgr5SL@15.3:D6QqvHFC@13/12-2-Characteristics-and-Traits](https://cnx.org/contents/jVCgr5SL%4015.3%3AD6QqvHFC%4013/12-2-Characteristics-and-Traits)

[https://cnx.org/contents/jVCgr5SL@15.3:8Zft46As@11/12-3-Laws-of-Inheritance](https://cnx.org/contents/jVCgr5SL%4015.3%3A8Zft46As%4011/12-3-Laws-of-Inheritance)

[https://cnx.org/contents/jVCgr5SL@15.3:2CO-nyxj@10/13-1-Chromosomal-Theory-and-Genetic-Linkage](https://cnx.org/contents/jVCgr5SL%4015.3%3A2CO-nyxj%4010/13-1-Chromosomal-Theory-and-Genetic-Linkage)

[https://cnx.org/contents/jVCgr5SL@15.3:9hjJaY5y@11/13-2-Chromosomal-Basis-of-Inherited-Disorders](https://cnx.org/contents/jVCgr5SL%4015.3%3A9hjJaY5y%4011/13-2-Chromosomal-Basis-of-Inherited-Disorders)