

BIOLOGY (Summer School 2010)

Semester 1											Semester 2										
Introducing Biology			Cell Biology				Genetics				Evolution				Ecology				Physiology		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
M	T	W	Th	M	T	W	M	T	W	Th	M	T	W	Th	M	T	W	Th	M	T	W
Chapter 1: Introducing Biology Chapter 2: Chemistry of Life			Chapter 3: Cell Structure and Function Chapter 4: Cells and Energy Chapter 5: Cell Growth and Division				Chapter 6: Meiosis and Mendel Chapter 7: Extending Mendelian Genetics Chapter 8: From DNA to Proteins Chapter 9: Frontiers of Biotechnology FALL FINAL EXAM				Chapter 10: Principles of Evolution Chapter 11: The Evolution of Populations Chapter 12: The History of Life				Chapter 13: Principles of Ecology Chapter 14: Interactions in Ecosystems Chapter 15: The Biosphere Chapter 16: Human Impact on Ecosystems				Chapter 28-34: Human Systems SPRING FINAL EXAM		

BIOLOGY (Summer School 2010) FIRST SEMESTER

MONDAY

JUNE 28

- Introduce myself
- **Take roll (by 8:00)**
- **Library/Text books (8:30)**
- **Worksheet:** Interview: Students introduce themselves
- **PowerPoint**-Class Intro
- **Handout:** Class Syllabus, Discus Summer School Rules and Attendance
- **Handout:** School Map, Science Vocabulary Root Words
- **Handout:** Notes Ch 1
- **Lecture** Chapter 1
- **Break (10:15-10:30)**
- **Take roll (by 11:00)**
- **PowerPoint:** Lost on the Moon
- **Lab:** Lost on the Moon (with **PowerPoint** Introduction)
- **Read:** Crow and the Pitcher
- **Lecture** Chapter 1
- **Online M.L. quiz ch1**
- **Worksheet**-Data Analysis
- **HW-** Sign Safety Contract, Sign Syllabus Bring Notebook and Book
- **Optional: Video-Life**

TUESDAY

JUNE 29

- **Take roll (by 8:00)**
- **Collect HW**-Safety Contract and Syllabus
- **Handout:** Syllabus (for student notebook)
- Pass back Lab: Data Analysis and discus
- **Worksheet:** D.T. Ch 1
- **Worksheet:** C.R. Ch 1
- **Cornell Notes Ch 1**
- **Lab:** Scientific Method-Optical Illusions
- **PowerPoint:** Lab Optical Illusions
- **Break (10:15-10:30)**
- **Take roll (by 11:00)**
- **PowerPoint Review Game (Millionaire)**
- **Quiz Chapter 1 DT**
- **Handout:** Notes Ch 2
- **Lecture** Chapter 2
- Have students recreate pH scale from Powerpoint slide
- **Lecture** Chapter 2
- **Worksheet:** Defining Terms Ch 2
- **Online M.L. quiz ch2**
- **HW**-bring notebook
- **Optional: Video-Life**

WEDNESDAY

JUNE 30

- **Take roll (by 8:00)**
- **Notebook check**
- **Worksheet:** Concept Review Ch 2
- **Cornell Notes Ch 2**
- **Worksheet:** Enzymes
- **PowerPoint Review Game (Cash Cab)**
- **Quiz Chapter 2 DT**
- **Worksheet**-Chapter 1 & 2 Review
- **Break (10:15-10:30)**
- **Take roll (by 11:00)**
- **Worksheet**-Chapter 1 & 2 Review (continued)
- **Powerpoint** grading rubric for Worksheet-Chapter 1 & 2 Review
- **Optional: Worksheet-Biochemistry**
- **Jeopardy Review Game Unit 1**
- **UNIT 1 TEST**
- **Optional: Video-"Outbreak" (.wmv file under "PowerPoints 2008")**

THURSDAY

JULY 1

- **Take roll (by 8:00)**
- **Notebook check**
- **Handout:** Notes Ch 3
- **Lecture** Chapter 3
- **Worksheet:** Cell Organelles
- **Break (10:15-10:30)**
- **Take roll (by 11:00)**
- **Lecture** Chapter 3
- **Worksheet:** Defining Terms Ch 3
- **Worksheet:** Concept Review Ch 3
- **Cornell Notes Ch 3**
- **Online M.L. quiz ch3**
- **Lab:** Plant and Animal Cells (**PowerPoint** w/ handout)
- **Optional: Video-"Outbreak" (.wmv file under "PowerPoints 2008")**

BIOLOGY (Summer School 2010) FIRST SEMESTER

<p>TUESDAY</p> <p>JULY 6</p>	<p>WEDNESDAY</p> <p>JULY 7</p>	<p>THURSDAY</p> <p>JULY 8</p>
<ul style="list-style-type: none"> • Take roll (by 8:00) • Notebook check • Worksheet: Chapter 3 Review • PowerPoint Review Game (millionaire) • Quiz Chapter 3 DT • Handout: Notes Ch 4 • Lecture Chapter 4 • Worksheet: Chemical Energy and ATP • Break (10:15-10:30) • Take roll (by 11:00) • Lecture Chapter 4 • Worksheet: Photosynthesis and Cell Energy • Quiz: Photosynthesis and Cell Energy • Optional: Video- "Outbreak" (.wmv file under "PowerPoints 2008") 	<ul style="list-style-type: none"> • Take roll (by 8:00) • Notebook check • Lecture Chapter 4 • Worksheet: Cellular Respiration and Cell Energy • Quiz: Cellular Respiration and Cell Energy • Worksheet: Defining Terms Ch 4 • Worksheet: Concept Review Ch 4 • Cornell Notes Ch 4 • Online M.L. quiz ch4 • PowerPoint Review Game (Cash Cab) • Quiz Chapter 4 DT • Handout: Notes Ch 5 • Lecture Chapter 5 • Break (10:15-10:30) • Take roll (by 11:00) • Lecture Chapter 5 • Worksheet: Mitosis • Lecture Chapter 5 • Optional: Video- "Outbreak" (.wmv file under "PowerPoints 2008") 	<ul style="list-style-type: none"> • Take roll (by 8:00) • Notebook check • Worksheet: Defining Terms Ch 5 • Worksheet: Concept Review Ch 5 • Cornell Notes Ch 5 • Online M.L. quiz ch5 • PowerPoint Review Game (Millionaire) • Quiz Chapter 5 DT • Worksheet: Cell Review • Break (10:15-10:30) • Take roll (by 11:00) • Worksheet: Cell Review • PowerPoint rubric: Worksheet-Cell Test Review • Jeopardy Review Game Unit 2 • UNIT 2 TEST • Optional: Video 15-20 min.- "The Island" (.wmv file under "PowerPoints 2008")

BIOLOGY (Summer School 2010) FIRST SEMESTER

<p>MONDAY JULY 12</p>	<p>TUESDAY JULY 13</p>	<p>WEDNESDAY JULY 14</p>	<p>THURSDAY JULY 15</p>
<ul style="list-style-type: none"> • Take roll (by 8:00) • Notebook check • Handout: Notes Ch 6 • Lecture Chapter 6 • Cash Cab PPT • Lab: Chromosomes • Quiz: Chromosome Lab • Break (10:15-10:30) • Take roll (by 11:00) • Lecture Chapter 6 • Worksheet: Mendel and Genetic Crosses • Worksheet: Monohybrid Crosses • Worksheet: DT Ch 6 • Worksheet: CR Ch 6 • Cornell Notes Ch 6 • Quiz: Ch 6 MC (open notes) • Online M.L. quiz ch6 • PowerPoint Review Game • Quiz Chapter 6 DT • Handout: Notes Ch 7 • Lecture Chapter 7 • Handout: Flash Cards • HW-Study Flash Cards • Optional: Video 15-20 min.- "The Island" 	<ul style="list-style-type: none"> • Take roll (by 8:00) • Notebook check • Lecture Chapter 7 • Lab-Finger Prints and Incomplete Dominance • Worksheet: DT Ch 7 • Worksheet: CR Ch 7 • Cornell Notes Ch 7 • Quiz: Ch 7 MC (open notes) • PowerPoint Review Game • Quiz Chapter 7 DT • Handout: Notes Ch 8 • Lecture Chapter 8 • Break (10:15-10:30) • Take roll (by 11:00) • Lecture Chapter 8 • Cash Cab PPT • Optional: Worksheet: Genetics of Sickle Cell Anemia • Lab: Beaker Babies (Homework Check Sheet as HW) • Online M.L. quiz ch8 • HW-Study Flash Cards • Optional: Video 15-20 min.- "The Island" 	<ul style="list-style-type: none"> • Take roll (by 8:00) • Notebook check • PowerPoint Review Game • Quiz Chapter 8 DT • Lab: Beaker Babies • Handout: Notes Ch 9 • Lecture Chapter 9 • Break (10:15-10:30) • Take roll (by 11:00) • Lab: Protein Synthesis in Tribbles (with <i>Star Trek Video</i> intro) • Lecture Chapter 9 • Worksheet: DT Ch 9 • Worksheet: CR Ch 9 • Cornell Notes Ch 9 • Online M.L. quiz ch9 • Quiz Chapter 9 DT • Optional: Codon Bingo • Optional: Video 15-20 min.- "The Island" • HW-Study Flash Cards 	<ul style="list-style-type: none"> • Take roll (by 8:00) • Notebook check • Worksheet: DNA, RNA, and Protein Synthesis • Unit 3 Test (open notes-MC) • Return textbooks • Worksheet: Fall Final Review • Break (10:15-10:30) • Take roll (by 11:00) • Worksheet: Fall Final Review (continue) • Powerpoint: Fall Final Review rubric • Jeopardy Review Game (fall final) • FALL FINAL EXAM • Discus final grades

BIOLOGY (Summer School 2010) SECOND SEMESTER

<p>MONDAY JULY 19</p>	<p>TUESDAY JULY 20</p>	<p>WEDNESDAY JULY 21</p>	<p>THURSDAY JULY 22</p>
<ul style="list-style-type: none"> • Take roll (by 8:00) • Handout: Class Syllabus and Rules Discus Summer School Rules and Attendance • Introduce class • Get textbooks 8:30 • Handout: Notes Ch 10 • Lecture Chapter 10 • Lab: Evolution of Cartoon Fossils • Break (10:15-10:30) • Take roll (by 11:00) • Lecture Chapter 10 • Worksheet: Defining Terms Ch 10 • Worksheet: Concept Review Ch 10 • Cornell Notes Ch 10 • Online M.L. quiz ch10 • Worksheet: Chapter 10 Review • PowerPoint: Ch10 Review rubric • Quiz: MC (open notes) • HW-sign Syllabus • Optional: Video: Avatar (DVD) 	<ul style="list-style-type: none"> • Take roll (by 8:00) • Notebook Check • Collect Syllabus (signed) • PowerPoint Review Game • Quiz Chapter 10 DT • Handout: Notes Ch 11 • Lecture Chapter 11 • Lab: Peppered Moth Survey • Break (10:15-10:30) • Take roll (by 11:00) • Lecture Chapter 11 • Worksheet: Defining Terms Ch 11 • Worksheet: Concept Review Ch 11 • Cornell Notes Ch 11 • Online M.L. quiz ch11 • Quiz ch11: MC/open notes • PowerPoint Review Game • Quiz Chapter 11 DT • Optional: Lab-Amino Acid Sequences and Evolutionary Relationships • Optional: Video: Avatar (DVD) 	<ul style="list-style-type: none"> • Take roll (by 8:00) • Notebook Check • Handout: Notes Ch 12 • Lecture Chapter 12 • Lab-The Most Intelligent Mammal • Worksheet: Defining Terms Ch 12 • Worksheet: Concept Review Ch 12 • Cornell Notes Ch 12 • Break (10:15-10:30) • Take roll (by 11:00) • Worksheet: Evolution Concept Map • Quiz ch12 MC/open Notes • PowerPoint Review Game • Quiz Chapter 12 DT • Worksheet: Evolution Test Review • PowerPoint Rubric: Evolution Test Review wks • Online M.L. quiz ch12 • Optional: Video: Avatar (DVD) 	<ul style="list-style-type: none"> • Take roll (by 8:00) • Notebook Check • Jeopardy Review Game Unit 4 • UNIT 4 TEST • Handout: Notes Ch 13 • Lecture Chapter 13 • Lab: Food Chains and Food Webs • Break (10:15-10:30) • Take roll (by 11:00) • Lecture Chapter 13 • Worksheet: Chapter 13 Test Review • Worksheet: Defining Terms Ch 13 • Worksheet: Concept Review Ch 13 • Cornell Notes Ch 13 • Online M.L. quiz ch13 • PowerPoint Review Game • Quiz Chapter 13 DT • Optional: Video: Avatar (DVD)

BIOLOGY (Summer School 2010) SECOND SEMESTER

MONDAY JULY 26	TUESDAY JULY 27	WEDNESDAY JULY 28	THURSDAY JULY 29
<ul style="list-style-type: none"> • Take roll (by 8:00) • Notebook Check • Quiz ch13: MC (open notes) • Handout: Notes Ch 14 • Lecture Chapter 14 • Lab: Survivorship Curves • Break (10:15-10:30) • Take roll (by 11:00) • Lecture Chapter 14 • Lab: The Lesson of the Kaibab • Worksheet: Defining Terms Ch 14 • Worksheet: Concept Review Ch 14 • Cornell Notes Ch 14 • Quiz ch14: MC/open notes • Online M.L. quiz ch14 • PowerPoint Review Game • Quiz Chapter 14 DT • Optional: Video 15-20 min: Video-"Day After Tomorrow" 	<ul style="list-style-type: none"> • Take roll (by 8:00) • Notebook Check • Quiz: ch14 MC (open notes) • Handout: Notes Ch 15 • Lecture Chapter 15 • Lab: Climatograms • Break (10:15-10:30) • Take roll (by 11:00) • Lecture Chapter 15 • Worksheet: Defining Terms Ch 15 • Worksheet: Concept Review Ch 15 • Cornell Notes Ch 15 • Online M.L. quiz ch15 • PowerPoint Review Game • Quiz Chapter 15 DT • Handout: Notes Ch 16 • Lecture Chapter 16 • Optional: Video 15-20 min: Video-"Day After Tomorrow" 	<ul style="list-style-type: none"> • Take roll (by 8:00) • Notebook Check • Lecture Chapter 16 • Worksheet: Ch 16 DT • Worksheet: Ch 16 CR • Cornell Notes Ch 16 • Online M.L. quiz ch16 • Break (10:15-10:30) • Take roll (by 11:00) • PowerPoint Review Game • Quiz Chapter 16 • Optional-Lab: Classifying Organisms • Worksheet: Ecology S.G. • PowerPoint Rubric: Ecology Study Guide • Jeopardy Review Game Unit 5 • UNIT 5 TEST • Optional: Video 15-20 min: Video-"Day After Tomorrow" 	<ul style="list-style-type: none"> • Take roll (by 8:00) • Notebook Check • Handout: Notes Overview of Human Systems • Lecture: Overview Human Systems • Worksheet: Physiology Overview • Handout: Notes Ch 28 • Lecture: Chapter 28 • Video: Body Story "Out of Control" • Worksheet: Ch 28 DT • Quiz: Ch 28 DT • Break (10:15-10:30) • Take roll (by 11:00) • Handout: Notes Ch 29 • Lecture: Chapter 29 • Lab: Reaction Time • Optional: Video 15-20 min: Video-"Day After Tomorrow" • Optional: Video- Stuff Happens wit Bill Nye (.wmv file under "PowerPoints 2008")

BIOLOGY (Summer School 2010) SECOND SEMESTER

<p>MONDAY</p> <p>AUG 2</p>	<p>TUESDAY</p> <p>AUG 3</p>	<p>WEDNESDAY</p> <p>AUG 4</p>
<ul style="list-style-type: none"> • Take roll (by 8:00) • Notebook Check • Lecture: Chapter 29 (Endocrine System) • Worksheet: Ch 29 DT • Video: Body Story “Crash” • Lab: The Effects of Alcohol on Human Reactions • Quiz: Ch 29 DT • Handout: Notes Ch 30 • Lecture: Chapter 30 • Break (10:15-10:30) • Take roll (by 11:00) • Worksheet: Ch 30 DT • Video: Body Story “The Beast Within” • Lab: Measuring Lung Capacity • Quiz: Ch 30 DT • Lab-Measuring Heartbeat • HW- Flash Cards • Optional: Video 15-20 min: “Super Size Me” (.wmv file under “PowerPoints 2008”) 	<ul style="list-style-type: none"> • Take roll (by 8:00) • Notebook Check • Handout: Notes Ch 31 • Lecture: Chapter 31 • Worksheet: Ch 31 DT • Optional: Lab: Spread of Viral Pathogens • Video: Body Story “Body Snatchers” • Quiz: Ch 31 DT • Break (10:15-10:30) • Take roll (by 11:00) • Handout: Notes Ch 32 • Lecture: Chapter 32 • Worksheet: Ch 32 DT • Optional: Wks-Eating Smart Assessment • Video: Body Story “Spreading Menace” • Quiz: Ch 32 DT • Handout: Notes Ch 33 • Lecture: Chapter 33 • Worksheet: Ch 33 DT • Video: Body Story “Breaking Down” • Quiz: Ch 33 DT • Optional: Video 15-20 min: “Super Size Me” 	<ul style="list-style-type: none"> • Take roll (by 8:00) • Notebook Check • Handout: Notes Ch 34 • Lecture: Chapter 34 • Worksheet: Ch 34 DT • Video: Body Story “Teen Dreams” • Quiz: Ch 34 DT • Worksheet: Spring Final Review • Return textbooks • Break (10:15-10:30) • Take roll (by 11:00) • Worksheet: Spring Final Review • PowerPoint rubric: Worksheet-Spring Final Review • Jeopardy Review Game Spring Final • SPRING FINAL EXAM • Discus final grades • Optional: Video 15-20 min: “Super Size Me”