| DATE | Lecture  Power Point and screencast | Day 1  Online HW  Chapter | Day 2  LAB | CASE STUDY | Extended Learning  Submit via Blackboard |
| --- | --- | --- | --- | --- | --- |
| DUE | ***Day Indicated*** | ***DUE SUNDAY by 11pm of week*** | ***DUE NEXT CLASS PERIOD*** | ***On day of test*** | ***On day of test*** |
| POINTS | ***N/A*** | ***10*** | ***10*** | ***30*** | ***Varies*** |
| LOCATION | ***Blackboard*** | ***Blackboard*** | ***Linked below*** | ***Blackboard*** | ***Blackboard*** |
| Week 1  8/25-8/29 | Intro to course | Syllabus quiz | Lab Safety |  |  |
| Week 2  9/2-9/5  Monday holiday | Biology Today | 1 | [Dependent/Independent Variables](http://www.mhhe.com/biosci/genbio/virtual_labs_2K8/pages/Dependent_Independent.html) |  | Can Crickets Tell Temperature(3)  Scientific Methods in Action (2)  Scientific Method Practice (3)  Notes for Chapter 1 (1-3)  Current Event any science topic(3) |
| Week 3  9/8-9/12 | Basic Chemistry | 2 | [Measuring the Differences in Carbon Dioxide Production](http://www.biologycorner.com/worksheets/carbondioxide.html) |  | Chemistry practice worksheet (3)  Acids and bases Coloring (1)  Macromolecule Color Sheet (3)  Notes for Chapter 2 (1-3)  Current Event any science topic (3) |
| Week 4  9/15-9/18 | Biochemistry | 3 | [Testing for Macromolecules](http://blue.wths.net/faculty/hsmith/biology/1_biochemistry/Macromolecules_Lab1.pdf) |  | Identifying Macromolecules (3)  Macromolecule Concept Map (2)  Notes for Chapter 3 (1-3)  Current Event any science topic (3) |
| Week 5  9/22-9/25 | Cells | 4 | [Microscope](http://www.biologycorner.com/worksheets/microscope-advanced.html)  [Plant vs Animal Cell](http://www.biologycorner.com/worksheets/comparing_plant_animal.html)  [Lab 5: Microscope Use](http://www.austincc.edu/biology/labmanuals/1408f12.pdf) |  | Cells Alive Webquest (2)  Cell Research Design (3)  Cell City (1)  Notes for Chapter 4 (1-3)  Current Event any science topic (3) |
| Week 6  9/29-10/9 | CASE STUDY  Extended Learning  Test review | None due | **Exam 1**  **50 points: Ch 1-4**  **25 points: Lab 1-4** | **CASE STUDY DUE**  **25 points** | 50 Extended Learning points available!!!!! |
| DATE | **Lecture**  **Power Point with embedded questions** | **Online HW**  **Chapter** | **LAB** | **CASE STUDY** | **Extended Learning**  **Submit via Blackboard** |
| DUE | ***Day Indicated*** | ***DUE SUNDAY by 11pm of week*** | ***DUE NEXT CLASS PERIOD*** | ***On day of test*** | ***On day of test*** |
| POINTS | ***N/A*** | ***10*** | ***10*** | ***30*** | ***Varies*** |
| LOCATION | ***Blackboard*** | ***Blackboard*** | ***Lab Manual*** | ***Blackboard*** | ***Blackboard*** |
| Week 7  10/6-10/9 | Membrane Transport  Metabolism, Enzymes | 5 | [Salt and Plants](http://www.biologycorner.com/worksheets/plants_and_salt.html)  [Enzymes](http://www.biologycorner.com/worksheets/enzyme_lab.html)  Maybe new enzyme kit??? |  | Membrane Concept Map (1)  Cell Membrane Images (3)  Virtual Osmosis/Diffusion lab (3)  Enzyme Webquest (3)  Enzyme Virtual Lab (3)  MGH: Enzyme Controlled Reactions (3)  Notes for Chapter 5 (1-3)  Current Event any science topic (3) |
| Week 8  10/14-10/17  Monday Holiday | Respiration/Photosynthesis | 6 | [Respiration/Photo Virtual Lab](http://lhsblogs.typepad.com/files/cell-respiration-virtual-lab.pdf) |  | Virtual Respiration Lab (3)  Respiration Concept Map (2)  Respiration/Photosynthesis Webquest (4)  Notes for Chapter 6 (1-3)  Current Event any science topic (3) |
| Week 9  10/20-10/23 | Cell Cycle  Cancer | 8 | [Lab 12 and 13](http://www.austincc.edu/biology/labmanuals/1408f12.pdf)  [ELISA (Lab 11)](http://www.austincc.edu/biology/labmanuals/1408f12.pdf)  Micropipette lab |  | Mitosis vs Meiosis Worksheet (3)  MGH: Cell Cycle and Cancer (3)  Mitosis Internet Lesson (3)  Cell Cycle Label (2)  Notes for Chapter 8 (1-3)  Current Event any science topic (3) |
| Week 10  10/27-10/30 | CASE STUDY  Extended Learning  Test review |  | **Exam 2**  **50 points: Ch 5-8**  **25 points: Lab 6-8** | **CASE STUDY DUE**  **25 points** |  |
|  |  |  |  |  |  |
| DATE | **Lecture**  **Power Point with embedded questions** | **Online HW**  **Chapter** | **LAB** | **CASE STUDY** | **Extended Learning**  **Submit via Blackboard** |
| DUE | ***Day Indicated*** | ***DUE SUNDAY by 11pm of week*** | ***DUE NEXT CLASS PERIOD*** | ***On day of test*** | ***On day of test*** |
| POINTS | ***N/A*** | ***10*** | ***10*** | ***30*** | ***Varies*** |
| LOCATION | ***Blackboard*** | ***Blackboard*** | ***Lab Manual*** | ***Blackboard*** | ***Blackboard*** |
| Week 11  11/3-11/6 | Patterns of Inheritance | 9 | [Lab 14 Patterns of Inheritance](http://www.austincc.edu/biology/labmanuals/1408f12.pdf)  [Lab 15 Cancer gene I](http://www.austincc.edu/biology/labmanuals/1408f12.pdf) |  | Punnett Square Webquest (3)  Dihybrid Worksheet (3)  MGH: Punnett Squares (3)  MGH: Sex linked Traits (3)  Notes for Chapter 9 (1-3) |
| Week 12  11/10-11/14  Tuesday Holiday | DNA  Biotechnology: Restriction Enzymes and Cloning | 10A | [Lab 10 (micropipetting) and 19 (Cancer Gene)](http://www.austincc.edu/biology/labmanuals/1408f12.pdf)  [Lab 17 pGLO](http://www.austincc.edu/biology/labmanuals/1408f12.pdf) |  | DNA Webquest (4)  Replication Concept Map (2)  DNA Color Sheet (1)  Notes for Chapter 10 (1-3) |
| Week 13  11/17-11/20 | Protein Synthesis  Biotechnology: Electrophoresis | 10B | Lab 19 and 17 analysis |  | RAP Mutations (3)  Mutations worksheet (2)  Transcription worksheet (3)  MGH DNA and Genes (3)  MGH: Knocking Out Genes (3) |
| Week 14  11/24 and 11/25  Thanksgiving week | CASE STUDY  Extended Learning  Test review |  | EXAM #3  **50 points: Ch 9-10**  **25 points: Lab14, 15, 10, 17, 19** | **CASE STUDY DUE**  **25 POINTS** |  |
|  |  |  |  |  |  |
| DATE | **Lecture**  **Power Point with embedded questions** | **Online HW**  **Chapter** | **LAB** | **CASE STUDY** | **Extended Learning**  **Submit via Blackboard** |
| DUE | ***Day Indicated*** | ***DUE SUNDAY by 11pm of week*** | ***DUE NEXT CLASS PERIOD*** | ***On day of test*** | ***On day of test*** |
| POINTS | ***N/A*** | ***10*** | ***NA*** | ***30*** | ***Varies*** |
| LOCATION | ***Blackboard*** | ***Blackboard*** | ***Lab Manual*** | ***Blackboard*** | ***Blackboard*** |
| Week 15  12/1-12/4 | Biotechnology/Viruses | 12 | **Biotechnology/Viruses** |  | MGH: Gene Splicing (3)  MGH: Classifying Using Biotechnology (3)  HHMI Virtual Bacterial Identification Lab (5)  HHMI Virtual Transgeneic Fly Lab (5)  Notes for Chapter 12 (1-3) |
| Week 16  12/8-12/11 | Evolution | 13 | **EXAM #4**  **Cumulative**  **100 points: anything from Exams 1,2,3 and Chapter 12/13 material** | NONE | PCR and Electrophoresis Webquest (5)  Bioinformatics Activities (10)  Notes for Chapter 13 (1-3) |