

# GENERAL BIOLOGY Homework & Reading Schedule

Winter 2016

**NOTE! HOMEWORK POLICY** - Homework assignments are due on date and time listed. Late assignments will be accepted until April 23, at start of class, but will only receive 50% of score and will not receive feedback. No assignments will be accepted after April 23, start of class. No exceptions.

## WEEK 1 (JAN 16): Intro to Biology & Chemistry Basics

- **ACTIVITY:** Film Study Worksheet for documentary "Blackfish." Due Jan 16, at end of lab.
- **ACTIVITY:** We will listen to, and complete part of an assignment on Radiolab "Yellow Fluff & Other Curious Encounters" Podcast. Due Jan 23, at start of class.
- **HOMEWORK:** Biology Coloring Workbook: 1-1, 1-4, 1-5, 1-6. Due Jan 23. Turn in book at start of lab.
- **READING:** "Current Controversies in the Biological Sciences" Pages 17-111. Complete before Feb 6 (Exam #1).

## WEEK 2 (JAN 23): Biological Cells & Nutrition

- **LAB MANUAL ACTIVITY:** Lab 1 – Cells, BIO 100 Lab Manual & Lab 2 - Nutrition, BIO 100 Lab Manual. Due Jan 23, at end of lab.
- **HOMEWORK:** Biology Coloring Workbook: 1-1, 1-4, 1-5, 1-6. Due Jan 23. Turn in book at start of lab.
- **HOMEWORK:** Radiolab "Yellow Fluff & Other Curious Encounters" Podcast Homework. Due Jan 23, at start of class.
- **HOMEWORK:** Biology Coloring Workbook: 1-3, 2-1, 2-3, 2-4, 2-5, 2-6, 9-17. Due Jan 30. Turn in book at start of lab.
- **HOMEWORK:** Diet Tracking Tables. Due Jan 30, by end of lab.
- **READING:** "Current Controversies in the Biological Sciences" Pages 17-111. Complete before Feb 6 (Exam #1).

## WEEK 3 (JAN 30): DNA & Cell Division: Mitosis & Meiosis

- **LAB MANUAL ACTIVITY:** Lab 3 – Cellular Reproduction
- **HOMEWORK:** Biology Coloring Workbook: 1-3, 2-1, 2-3, 2-4, 2-5, 2-6, 9-17. Due Jan 30. Turn in book at start of lab.
- **ACTIVITY:** Mitosis & Meiosis Diagrams. Due Jan 30, at end of lecture.
- **HOMEWORK:** Diet Tracking Tables. Due Jan 30, by end of lab.
- **HOMEWORK:** Biology Coloring Workbook: 2-15, 2-16, 2-17, 4-1, 4-2, 4-4, 10-3. Due Feb 6. Turn in book at start of lab.
- **HOMEWORK:** "Henrietta's Tumor" Radiolab Podcast Homework. Due Feb 6, at start of lecture.
- **READING:** "Current Controversies in the Biological Sciences" Pages 17-111. Complete before Feb 6 (Exam #1).

## WEEK 4 (FEB 6): Development, Tissues & Organ Systems

- **EXAM #1 Feb 6, 8am!**
- **LAB MANUAL ACTIVITY:** Lab 4 – Development, BIO 100 Lab Manual. Due Feb 6, at end of lab.
- **HOMEWORK:** "Henrietta's Tumor" Radiolab Podcast Homework. Due Feb 6, at start of lecture.
- **HOMEWORK:** Biology Coloring Workbook: 2-15, 2-16, 2-17, 4-1, 4-2, 4-4, 10-3. Due Feb 6. Turn in book at start of lab.
- **READING:** "Current Controversies in the Biological Sciences" Pages 17-111. Complete before Feb 6 (Exam #1).
- **HOMEWORK:** Biology Coloring Workbook: 1-2, 9-1, 9-2, 9-3, 9-8, 9-19, 10-5, 10-6. Due Feb 13. Turn in book at start of lab.
- **READING:** "Current Controversies in the Biological Sciences" Pages 329 – end of book. Complete before Feb 20 (Exam #2).

### **WEEK 5 (FEB 13): Heredity**

- **LAB MANUAL ACTIVITY:** Lab 5 – Sex & Punnett Squares, BIO 100 Lab Manual. *Due Feb 13*, at end of lab.
- **ACTIVITY:** Mendelian Inheritance In Humans Exercise (Handout). *Due Feb 13*, at end of lab.
- **HOMEWORK:** Biology Coloring Workbook: 1-2, 9-1, 9-2, 9-3, 9-8, 9-19, 10-5, 10-6. *Due Feb 13*. Turn in book at start of lab.
- **HOMEWORK:** Biology Coloring Workbook: 3-1, 3-2, 3-3, 3-5, 3-11. *Due Feb 20*. Turn in book at start of lab.
- **READING:** "Current Controversies in the Biological Sciences" Pages 329 – end of book. *Complete before Feb 27 (Exam #2)*.

### **WEEK 6 (Feb 20): Gene Expression & Epigenetics**

- **LAB MANUAL ACTIVITY:** Lab 6 – DNA Fingerprinting. *Due Feb 20*, at end of lab.
- **ACTIVITY:** Radiolab "Inheritance" episode (We will listen to and discuss portions of this episode in class, and I will provide a printout of the assignment). *Due Feb 27* at end start of class.
- **HOMEWORK:** Biology Coloring Workbook: 3-1, 3-2, 3-3, 3-5, 3-11. *Due Feb 20*. Turn in book at start of lab.
- **HOMEWORK:** Biology Coloring Workbook: 4-8, 4-9, 4-10, 4-16, 4-17. *Due Feb 27*. Turn in Book at start of lab.
- **READING:** "Current Controversies in the Biological Sciences" Pages 329 – end of book. *Complete before Feb 27 (Exam #2)*.

### **WEEK 7 (FEB 27): Evolution**

- **EXAM #2 Feb 27, 8am!**
- **LAB MANUAL ACTIVITY:** Lab 7 – Natural Selection and Predator Prey Coevolution. *Due Feb 27*, at end of lab.
- **ACTIVITY:** Radiolab "Darwinvaganza" episode (We will listen to this episode in class, and I will provide a printout of the assignment). *Due Feb 27, before end of lab*.
- **ACTIVITY:** Radiolab "New Nice" episode (We will listen to this episode in class, and I will provide a printout of the assignment). *Due March 5*, at start of class.
- **HOMEWORK:** Radiolab "Inheritance" episode. *Due Feb 27* at start of class
- **HOMEWORK:** Biology Coloring Workbook: 4-8, 4-9, 4-10, 4-16, 4-17. *Due Feb 27*. Turn in Book at start of lab.
- **READING:** "Current Controversies in the Biological Sciences" Pages 329 – end of book. *Complete before Feb 27 (Exam #2)*.
- **HOMEWORK:** Biology Coloring Workbook: 5-1, 5-2, 5-3, 5-4, 5-8, 5-9, 6-4. *Due March 5*. Turn in book at start of lab.
- **READING:** For readings on evolution, see the "Class Notes" articles on our class main page The Virtual Biology Classroom, under Evolution topic. I will announce any additional evolution readings from the Evolution Book. *Complete before March 26 (Exam#3)*.

### **WEEK 8 (MARCH 5): Biological Classification / Viruses**

- **LAB MANUAL ACTIVITY:** Lab 8 – Biological Classification. *Due March 5*, before end of lab.
- **ACTIVITY:** Radiolab "Shrink" Episode (We will listen to and discuss this episode in class, and I will provide a printout of the assignment.) *Due March 19, at start of class*.
- **HOMEWORK:** Radiolab "New Nice" episode (We will listen to this episode in class, and I will provide a printout of the assignment). *Due March 5*, at start of class.
- **HOMEWORK:** Biology Coloring Workbook: 5-1, 5-2, 5-3, 5-4, 5-8, 5-9, 6-4. *Due March 5*. Turn in book at start of lab.
- **HOMEWORK:** Biology Coloring Workbook: 6-5, 6-6, 6-7, 6-8. *Due March 19*. Turn in book at start of lab.
- **READING:** For readings on evolution, see the "Class Notes" articles on our class main page The Virtual Biology Classroom, under Evolution topic. I will announce any additional evolution readings from the Evolution Book. *Complete before March 26 (Exam#3)*.

**SPRING BREAK! SPRING BREAK! SPRING BREAK! SPRING BREAK!**

## WEEK 9 (MARCH 19): Bacteria

- **LAB MANUAL ACTIVITY:** Lab 9 – Bacteria. *Due March 19*, before end of lab.
- HOMEWORK: Radiolab “Shrink” Episode (We will listen to and discuss this episode in class, and I will provide a printout of the assignment.) *Due March 19, at start of class.*
- HOMEWORK: Biology Coloring Workbook: 6-5, 6-6, 6-7, 6-8. *Due March 19.* Turn in book at start of lab.
- READING: For readings on evolution, see the “Class Notes” articles on our class main page The Virtual Biology Classroom, under Evolution topic. *Complete before March 26 (Exam#3).*

## WEEK 10 (MARCH 26): Protista

- **EXAM #3 March 26, 8am!**
- **LAB MANUAL ACTIVITY: Lab 10** -Protists. *Due March 26*, before end of lab.
- **ACTIVITY:** Radiolab “Parasites” episode (We will listen to and discuss part of this episode in class, and I will provide a printout of the assignment.) *Due April 2, at start of class.*
- HOMEWORK: NO Biology Coloring Workbook assignments this week. You can use this time to catch up or work ahead.
- READING: For readings on evolution, see the “Class Notes” articles on our class main page The Virtual Biology Classroom, under Evolution topic. *Complete before March 26 (Exam#3).*
- HOMEWORK: Biology Coloring Workbook: 6-9, 6-10, 6-11, *Due April 2.* Turn in book at start of lab.
- READING: “Field Guide to Germs”: Introduction, p. 3-20; *Anthrax* p.23 -26; Lyme disease p. 30 – 33; *Candida* (yeast) p. 36 - 37; *Chlamydia* p. 39 – 41; *Cholera* p. 41-48; *Clostridium* p. 48-53; *E. coli* p. 65-67; *Helicobacter pylori* p. 77-78; hepatitis – influenza p. 78-96; *Ebola* p. 100-103; *Neisseria* p. 111-114; rabies & rhinovirus p. 130–134; smallpox, *Staph & Strep* p.142-157; tuberculosis p. 163-170; black plague (*Yersinia pestis*) p. 184-191. *Complete before April 30 (Final Exam).*

## WEEK 11 (APRIL 2): Plants

- **LAB MANUAL ACTIVITY:** Lab 11 – Land Plants. *Due April 2*, before end of lab.
- **ACTIVITY:** Radiolab “Parasites” episode (We will listen to and discuss part of this episode in class, and I will provide a printout of the assignment.) *Due April 9, at start of class.*
- HOMEWORK: Biology Coloring Workbook: 6-9, 6-10, 6-11, *Due April 2.* Turn in book at start of lab.
- HOMEWORK: Biology Coloring Workbook: 6-12, 7-1, 7-2, 7-3, 7-4, 7-5, 7-6, 7-9, 7-10, *Due April 9.* Turn in book at start of lab.
- READING: “Field Guide to Germs”: Introduction, p. 3-20; *Anthrax* p.23 -26; Lyme disease p. 30 – 33; *Candida* (yeast) p. 36 - 37; *Chlamydia* p. 39 – 41; *Cholera* p. 41-48; *Clostridium* p. 48-53; *E. coli* p. 65-67; *Helicobacter pylori* p. 77-78; hepatitis – influenza p. 78-96; *Ebola* p. 100-103; *Neisseria* p. 111-114; rabies & rhinovirus p. 130–134; smallpox, *Staph & Strep* p.142-157; tuberculosis p. 163-170; black plague (*Yersinia pestis*) p. 184-191. *Complete before April 30 (Final Exam).*

## WEEK 12 (APRIL 9): Animals

- **LAB MANUAL ACTIVITY:** Lab 12 – Animals. *Due April 9*, before end of lab.
- HOMEWORK: Radiolab “Parasites” episode (We will listen to and discuss part of this episode in class, and I will provide a printout of the assignment.) *Due April 9, at start of class.*
- HOMEWORK: Biology Coloring Workbook: 6-12, 7-1, 7-2, 7-3, 7-4, 7-5, 7-6, 7-9, 7-10. *Due April 9.* Turn in book at start of lab.
- HOMEWORK: Biology Coloring Workbook: 8-1, 8-2, 8-3, 8-4, 8-5, 8-6, 8-7, 8-8, 8-9. *Due April 16.*
- READING: “Field Guide to Germs”: Introduction, p. 3-20; *Anthrax* p.23 -26; Lyme disease p. 30 – 33; *Candida* (yeast) p. 36 - 37; *Chlamydia* p. 39 – 41; *Cholera* p. 41-48; *Clostridium* p. 48-53; *E. coli* p. 65-67; *Helicobacter pylori* p. 77-78; hepatitis – influenza p. 78-96; *Ebola* p. 100-103; *Neisseria* p. 111-114; rabies & rhinovirus p. 130–134; smallpox, *Staph & Strep* p.142-157; tuberculosis p. 163-170; black plague (*Yersinia pestis*) p. 184-191. *Complete before April 30 (Final Exam).*

**WEEK 13 (APRIL 16): Animal Behavior**

- **MOVIE:** "Elephant in the Living Room" video and assignment. *Due April 23*, at start of class.
- **ACTIVITY:** Animal behavior dominance observations of African cichlid fish.
- **HOMEWORK:** Biology Coloring Workbook: 8-1, 8-2, 8-3, 8-4, 8-5, 8-6, 8-7, 8-8, 8-9. *Due April 16.*
- **READING:** "Field Guide to Germs": Introduction, p. 3-20; *Anthrax* p.23 -26; Lyme disease p. 30 – 33; *Candida* (yeast) p. 36 - 37; *Chlamydia* p. 39 – 41; *Cholera* p. 41-48; *Clostridium* p. 48-53; *E. coli* p. 65-67; *Helicobacter pylori* p. 77-78; hepatitis – influenza p. 78-96; *Ebola* p. 100-103; *Neisseria* p. 111-114; rabies & rhinovirus p. 130–134; smallpox, *Staph & Strep* p.142-157; tuberculosis p. 163-170; black plague (*Yersinea pestis*) p. 184-191. *Complete before April 30 (Final Exam).*

**WEEK 14 (APRIL 23): Review**

**WEEK 15 (APRIL 30): Final Exam (Cumulative!). NO LAB! Just final 😊**