

# ***Reedley College - Fall 2009***

**Class:** Biology 22 – Human Physiology - 57499

Lecture in LFS11 – Monday & Wednesday: 9:00am – 10:50am

Laboratory in LFS11 – Thursday: 9:00am – 11:50am

**Instructor:** Dr. B.J. Marquez

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**Office:** Life Science Room 13 **Phone:** 559-638-3641 ext. 3257

**Office Hours:** Monday 3 pm, Tuesday 4 pm, & Wednesday 11:00 am or to arrange

**Attendance:**

You are required to attend **ALL** class sessions. There are NO excused absences except as defined in the Reedley College Catalog. If you are absent more than **FIVE** hours during the semester, you **MAY** be dropped from the class. If you are absent more than TEN hours, you **WILL** be dropped from class. If your ELEVENTH hour of absence occurs after the last day to drop, your final point total will be lowered by 25 points for each absence.

**Tardiness:** Three tardies equal one class absence.

***\*\* I reserve the right to make changes in this syllabus with notification \*\****

**Final Grade:** ***Determined on a basis of points accrued throughout the course.***

|                 |     |  |
|-----------------|-----|--|
| A = 90 - 100%   | 60% | - Seven (7) lecture exams: 100 points each       |
| B = 80 - 89%    | 15% | - One (1) final exam: 150 points                 |
| C = 70 - 79%    | 20% | - Laboratory assignments: 200 points             |
| D = 60 - 69%    | 5%  | - Lecture & Laboratory participation : 50 points |
| F = 59% & lower |     |  |

**Major Class Objectives:** Upon successful completion of the course, the student will be able to:

1. Explain why homeostasis is a state that results in normal body activities and why the inability to achieve homeostasis is a condition that leads to malfunction.
2. Describe the interrelationships of body systems in maintaining homeostasis.
3. Compare the role of endocrine and nervous systems in maintaining homeostasis.
4. Describe the role of the kidneys in maintaining homeostasis.
5. Describe the role of the lungs in maintaining homeostasis.
6. Compare specific and non-specific mechanisms of defense against infection.
7. Describe the role of the circulatory system in homeostasis.
8. Analyze and evaluate problems associated with fluid balance and acid-base balance.
9. Demonstrate an understanding of the metabolic relationships in the absorptive state versus the post-absorptive state.
10. Explain the physiological basis of skeletal muscle contraction.
11. Describe the physiological anatomy of the male and female sexual organs and the control of reproductive function by hypothalamic GnRH and pituitary FSH and LH.
12. Assess the impacts of various pathophysiological conditions on homeostasis.

**NO FOOD OR DRINK ALLOWED IN ANY CLASSROOMS NO EXTRA CREDIT**

No children allowed in class at any time

No disruptive behavior

Tardy assignments count for only one-half credit or no credit.

"If you have special needs as addressed by the Americans with Disabilities (ADA) act including alternate media requests, please notify your course instructor immediately. Reasonable efforts will be made to accommodate your special needs."

**\*\*Tentative Schedule - subject to Change with Notification\*\***

| LECTURE CHAPTERS - SCHEDULE |   | LAB ASSIGNMENT SCHEDULE                                     |  | EXAM DATES & SCORES |
|-----------------------------|---|---|--|---------------------|
| WEEK                        | Monday  | Wednesday   | Thursday                                 |                     |
| 1                           | 17-Aug<br>1 - Study of Body Function              | 19-Aug<br>2 - Chem Comp of Body                             | 20-Aug<br>Ex. 1.2 & 1.3                  |                     |
| 2                           | 24-Aug<br>3 - Cell Struc & Gene Cont              | 26-Aug<br>4 - Enzymes & Energy                              | 27-Aug<br>Ex. 2.1, 2.4, & 2.5            |                     |
| 3                           | 31-Aug<br>5 - Cell Resp & Metab                   | 2-Sep<br>5 - Cell Resp & Metab<br>6 - Cells & Extracellular | 3-Sep<br><b>Exam #1 (1 - 5)</b>          | 3-Sep<br>1          |
| 4                           | <b>7-Sep<br/>Labor Day</b>                        | 9-Sep<br>6 - Cells & Extracellular                          | 10-Sep<br>Ex. 2.6                        |                     |
| 5                           | 14-Sep<br>7 - NS: Neurons & Synapse               | 16-Sep  | 17-Sep<br>Ex. 3.1, 3.2, & video          |                     |
| 6                           | 21-Sep<br><b>Exam #2 (6 &amp; 7)</b>              | 23-Sep<br>8 - The CNS                                       | 24-Sep<br>Ex. 3.4                        | 21-Sep<br>2         |
| 7                           | 28-Sep<br>9 - The ANS                             | 30-Sep<br>10 - Sensory Phys                                 | 1-Oct<br>Ex. 3.5 & 3.6                   |                     |
| 8                           | 5-Oct<br><b>Exam #3 (8, 9, 10)</b>                | 7-Oct<br>11 - Endocrine                                     | 8-Oct<br>Ex. 4.1                         | 5-Oct<br>3          |
| 9                           | 12-Oct<br>12 - Muscles                            | 14-Oct<br><b>*DROP DATE*</b>                                | 15-Oct<br>Ex. 5.1 & 5.2                  |                     |
| 10                          | 19-Oct<br><b>Exam #4 (11 &amp; 12)</b>            | 21-Oct<br>13 - Blood Heart & Circ.                          | 22-Oct<br>Ex. 6.1 & 6.3                  | 19-Oct<br>4         |
| 11                          | 26-Oct<br>14 - CO, BF & BP                        | 28-Oct  | 29-Oct<br>Ex. 7.2, 7.3, & 7.6            |                     |
| 12                          | 2-Nov<br><b>Exam #5 (13 - 14)</b>                 | 4-Nov<br>16 - Respiratory Phys                              | 5-Nov<br>Ex. 8.1 & 8.4                   | 2-Nov<br>5          |
| 13                          | 9-Nov   | <b>11-Nov<br/>Veterans Day</b>                              | 12-Nov<br>Ex. 9.1 & 9.2                  |                     |
| 14                          | 16-Nov<br>17 - Phys of the Kidneys                | 18-Nov  | 19-Nov<br><b>Exam #6 (16 - 17)</b>       | 19-Nov<br>6         |
| 15                          | 23-Nov<br>18 - Digestive System                   | 25-Nov<br>19 - Reg of Metabolism                            | <b>26-Nov<br/>Thanksgiving Day</b>       |                     |
| 16                          | 30-Nov  | 2-Dec<br><b>Exam #7 (18 - 19)</b>                           | 3-Dec<br>15 - The Immune System<br>Video | 2-Dec<br>7          |
| 17                          | 7-Dec<br>20 - Reproduction                        | 9-Dec   | 10-Dec<br>Video                          |                     |
| 18                          | <b>14-Dec<br/>Final Exam<br/>9:00am - 10:50am</b> |   |  | 14-Dec<br>Final     |