CASPER COLLEGE COURSE SYLLABUS
ZOO 2110 – HUMAN PHYSIOLOGY

Semester/Year: Spring 2016

Lecture Hours: 3  Lab Hours: 2  Credit Hours: 4

Class Time:  

Lecture: 8:00 a.m. – 8:50 a.m. Section 1, 10:00 a.m. – 10:50 a.m. Section 2
Lab A: 7:00 a.m. – 9:00 a.m.  T  LS 104
Lab B: 9:00 a.m. – 11:00 a.m.  T  LS 104
Lab C: 11:00 a.m. – 1:00 p.m.  T  LS 104
Lab D: 1:00 p.m. – 3:00 p.m.  T  LS 104
Lab E: 3:00 p.m. – 5:00 p.m.  T  LS 104
Lab F: 5:00 p.m. – 7:00 p.m.  T  LS 104

Days:  M W F  
Room:  PS 103

Students are required to attend one 30 minute RECITATION session per week on MWF between 9:00 a.m. & 10:00 a.m. or 2:00 to 2:30.

Instructor’s Name: Scott M. Johnson OTD., OT, ATP, CEAS

Instructor's Contact Information:  Office Phone:  Email:
Office Location:  LS 208  268-2001  sjohnson@caspercollege.edu

Office Hours:
Monday:  7:00 am – 8:00 am; 11:00 am – 12:00 pm
Wednesday:  7:00 am – 8:00 am; 11:00 am – 12:00 pm
Friday:  7:00 am – 8:00 am
Other times available, by appointment.

Course Description:
This course is a scientific inquiry into the physiology of select organ systems in the human body during homeostasis. Physical exertion, environmental influences and pathological change will also be discussed as they pertain to physiological change in organ system function. Physiologic concepts will be related to anatomical organization.

Statement of Prerequisites: None

Goal: Students who successfully complete this course will have a basic understanding of the function of human cells, tissues, organs and organ systems. They will be able to describe this function.

Outcomes: After the successful completion of this course, students will be able to:

1) Define physiology and describe its relation to anatomy
2) Name and describe the major organ systems of the body
3) Name and describe the composition and synthesis of the major biomolecules, as well as how the human body utilizes them
4) Describe the responses of the major organ systems to exercise and recovery from physical exertion
5) Describe and relate the significance of various physiologic parameters such as heart rate, cardiac output, endocrine secretions, gastrointestinal and renal function
6) Use anatomical principals to describe neural tissue and the propagation of neural signals
7) Use anatomical principles to describe the functional differences of muscle tissue
8) Predict/describe the manifestation of physiologic dysfunction in organ systems

**The degree to which the student achieves these outcomes is dependent on the effort put forth by the student and is reflected in the grade earned in this class.**

Methodology:
This is a lecture/lab course. **You are required to attend both components in order to receive a passing grade in the course.**

Evaluation Criteria:
Your grade in the course will be assigned based on the percentage of the total points you earn. Points are derived from lecture and lab exams, lab quizzes, assignments and extra credit opportunities that may arise. The points you earn will be divided by the total points possible, and the resultant percentage will be your grade in the course (Lecture and Lab). The point distribution is as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
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<tbody>
<tr>
<td>6 Lecture Exams</td>
<td>50 each x 6  = 300 points</td>
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<tr>
<td>2 Lab Exams</td>
<td>100 each x 2 = 200 points</td>
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<tr>
<td>10 Lab Quizzes</td>
<td>10 each x 10 = 100 points</td>
</tr>
</tbody>
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**TOTAL POINTS = 600**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
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<tbody>
<tr>
<td>A</td>
<td>90% = 540 points or higher</td>
</tr>
<tr>
<td>B</td>
<td>80% = 539 - 480</td>
</tr>
<tr>
<td>C</td>
<td>70% = 479 - 420</td>
</tr>
<tr>
<td>D</td>
<td>60% = 419 - 360</td>
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<tr>
<td>F</td>
<td>&lt;60% = below 359 points</td>
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</tbody>
</table>

Your progress in this course will be measured in a variety of ways. One of the most important tools you have as a student is your ability to communicate. Thus, you must be able to clearly articulate, verbally and in writing, your understanding of the human body's physiology. You will be allowed to reference a medical dictionary (PROVIDED BY THE INSTRUCTOR) during examinations and assignments.

You will be evaluated by lecture examinations (these may consist of multiple choice, true/false, matching, fill-in-the-blank, and short answer questions), laboratory quizzes (unless otherwise noted,
these will always cover information from previous labs), and laboratory examinations (objective in nature, closely paralleling the format described for the lecture exams).

I will regularly engage the class in discussion/activities. Your participation in/contribution to these activities will positively affect your learning and thus your grade. It is my intent that these requirements will lead to a basic understanding of the functioning of the human body, something you will forever incorporate into your lives and the lives of those you love.

**Required Text, Readings, and Materials:**
Your lecture text is: Human Physiology, 13th ed., by Stuart Fox
The instructor will provide all additional readings, including lab handouts.

**Class Policies:**
Last Date to Change to Audit Status or to Withdraw with a W Grade: Friday, April 14, 2016

In this course, if you are considering a change to Audit status, or dropping the course, you should first speak with the instructor to evaluate your options.

**Examination Policy:**
There will be **NO MAKE-UP EXAMS** in this course. Exam dates listed on this syllabus are tentative and subject to change. The instructor will notify you at least 2 lecture sessions ahead of time if a change is to be made to the exam schedule. **It is your responsibility to check your personal schedule with ALL exam dates upon receipt of this document and to notify the instructor in advance of the scheduled time if there is a conflict.** See the Casper College Student Handbook for information on how to handle absences due to illness, death in family or other extenuating circumstances.

If a student is more than 30 minutes late for an exam they will NOT be allowed to complete it. Exams will be reviewed in class, or made available to the students for review. In the event that you find an incorrectly scored exam, you must make a written request to change the grade on the exam within one week of the exam. **Exams turned in for correction after this time frame will not be considered.**

**Classroom:**
As a college student, it is your responsibility to determine whether or not your attendance in this class is required. As an instructor, it is my responsibility to ensure that the optimal learning environment is provided to all students. The following are examples of expected behaviors in any college classroom:

- **Attend all class meeting and be on time.** If you are late, discreetly enter the classroom through the rear doors.
- **Listen to questions/statements made by your fellow classmates; these may enhance your understanding of the material.**
- **Expect to receive pertinent course materials/handouts during the designated course times.** If you are unable to obtain these materials at these times, **it becomes your responsibility to obtain them from a fellow classmate, or from the instructor, during his office hours.** Don’t expect late, partially completed or illegible work to be graded.
- **Always exercise your right to ask questions.** There is absolutely no such thing as a “stupid question” and your instructor is not beyond being able to learn from you. Be active in your
learning.

*Absolutely No Cell Phone Use during class and lab time including text messaging, it is rude and I do not appreciate these types of interruptions as you will be asked to leave the classroom!*

Comments:
The subject of human physiology is fascinating and complex! Therefore, I encourage and strongly suggest that you keep up with the material and *NEVER* hesitate to ask questions. If I cannot answer a question for you directly, I will find a resource that can. I believe it will be a great benefit to you if anatomical information is reviewed prior to the presentation of an organ system's function.

Remember the important principle that *FUNCTION FOLLOWS FORM.* It is my hope that the presentation of material in this class will be such that you gain a better understanding of how the human body functions and that you can apply this information in a meaningful way to your life. *Please keep in mind that the materials presented in this course (Anatomical Structure & Physiologic Principle) may be sensitive for some individuals; therefore it is paramount to maintain open constructive communication.*

Student Rights and Responsibilities:
Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

Chain of Command:
If you have any problems with this class, you should first contact the instructor (Me), in order to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take your problem through the appropriate chain of command starting with the department head (Me, Alternative- Mrs. Brandi Atnip), then the Dean of the School of Science (Dr. Grant Wilson), and lastly the vice president for academic affairs (Dr. Shawn Powell).

Academic Dishonesty - Cheating & Plagiarism:
Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct.

Official Means of Communication: Casper college faculty and staff will employ the students’ assigned Casper College email account as a primary method of communication. Students are responsible to attend to their account regularly.

ADA Accommodations Policy:
It is the policy of Casper College to provide appropriate accommodations to any student with a documented disability. If you have a need for accommodation in this course, please make an appointment to see me at your earliest convenience or contact an Accommodative Services Counselor at 268-2557.
<table>
<thead>
<tr>
<th>WEEK OF:</th>
<th>Lecture Schedule by Week</th>
<th>Reading Assignment</th>
</tr>
</thead>
</table>
| January    | 18 Course Introduction & Syllabus Review  
Homeostasis, Primary Tissues, Organs & Organ Systems | Chapter 1 & 2      |
| January    | 25 Chemical Composition of the Body  
Cell Structure & Function (Protein Synthesis)  
Enzymes & Energy | Chapter 3  
Chapter 4 |
| February   | 1 Enzymes & Energy  
**Exam 1**  
Cell Respiration & Metabolism | Chapter 4  
Chapter 5 & 19 |
| February   | 8 Cell Respiration & Metabolism  
Cellular Communication and Environment | Chapter 5 & 19  
Chapter 6 |
| February   | 15 **No School - President's Day**  
Nervous System Physiology Continued | Chapter 7, 8, 9 |
| February   | 22 Nervous System Physiology Continued  
**Exam 2**  
Endocrine System | Chapter 7, 8, 9  
Chapter 11 |
| February   | 29 Endocrine System  
Muscular System Physiology  
Muscular System Physiology Continued | Chapter 11  
Chapter 12 |
| March      | 7 **Exam 3**  
Heart and Circulation | Chapter 13 & 14 |
| March      | 14 **No School - Spring Break** |                    |
| March      | 21 Heart and Circulation  
"  
Immune System | Chapter 13 & 14  
Chapter 15 |
| March      | 28 Immune System  
**Advising Day** | Chapter 15  
Chapter 16 |
| April      | 4 Respiratory System | Chapter 16 |
| April      | 8 **Exam 4**  
Renal Physiology | Chapter 17 |
| April      | 25 Digestive System  
Digestive System | Chapter 18 |
| May        | 2 Reproductive Systems  
**Exam 5** | Chapter 20 |
<p>| May        | 9 <strong>Finals Week – Exam 6</strong> |                  |</p>
<table>
<thead>
<tr>
<th>Month</th>
<th>DATE</th>
<th>Laboratory Schedule by week</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>19</td>
<td><strong>No Lab</strong></td>
</tr>
<tr>
<td>January</td>
<td>26</td>
<td>Histology Review &amp; Homeostasis/Negative Feedback</td>
</tr>
<tr>
<td>February</td>
<td>2</td>
<td>Osmosis</td>
</tr>
<tr>
<td>February</td>
<td>9</td>
<td>Sensory I – Reflex Arcs and Cutaneous Receptors</td>
</tr>
<tr>
<td>February</td>
<td>16</td>
<td>Sensory II – Special Senses</td>
</tr>
<tr>
<td>February</td>
<td>23</td>
<td>Endocrine System</td>
</tr>
<tr>
<td>March</td>
<td>1</td>
<td>Muscular System</td>
</tr>
<tr>
<td>March</td>
<td>8</td>
<td>LAB EXAM 1</td>
</tr>
<tr>
<td>March</td>
<td>15</td>
<td><strong>No Lab – Spring Break</strong></td>
</tr>
<tr>
<td>March</td>
<td>22</td>
<td>Blood – Hematocrit &amp; Blood Typing</td>
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<tr>
<td>March</td>
<td>29</td>
<td>Heart - Electrocardiogram and Heart Sounds</td>
</tr>
<tr>
<td>April</td>
<td>5</td>
<td>Respiratory System</td>
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<tr>
<td>April</td>
<td>12</td>
<td>Urinalysis</td>
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<tr>
<td>April</td>
<td>19</td>
<td>Digestive System &amp; Metabolism</td>
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<tr>
<td>April</td>
<td>26</td>
<td>Open Lab</td>
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<tr>
<td>May</td>
<td>3</td>
<td>Lab Exam 2</td>
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