Biol 3343– Physiology

Course Syllabus
Tuesday/Thursday 11:00 AM – 12:20 PM
Spring 2022

INSTRUCTOR
Dr. Ryan Shartau
Office: BEP 109A
Email: rshartau@uttyler.edu

Office hours: Tue 1-3pm, Thu 10-11am, or by appointment

SUGGESTED COURSE MATERIAL
Textbook: Human Physiology, B. Derrickson, 2nd Ed, Wiley

COURSE DESCRIPTION
This course will provide advanced knowledge on the principles of human physiology at the cellular and organ systems level. Current topics include the major organ systems structure and their functions in maintaining homeostasis essential for cell survival.

SPECIFIC OBJECTIVES
1. Review the structure and function of the various cell and tissue types
2. Explain the structure and function of the major organ systems and regulatory mechanisms involved
3. Decode contribution of each system to whole body homeostasis
4. Interconnect scientific concepts to real world physiology case studies, including those in the biomedical field

EVALUATION
Attendance: 15%
Paper: 20%
Midterm exam: 30%
Final exam: 35%

Exams will be a mix of multiple choice and short answer. Midterm exams will be conducted during class time. Midterm exams are NOT cumulative; the final exam IS cumulative. There will be two midterm exams, with the lowest exam will be dropped so that the highest midterm exam will be worth 35% of your final grade. Details of the paper will be provided in class. Attendance will count for 15% of your grade; attendance will be taken at random during the semester; only valid medical or emergency excuses for absences will be accepted.

No make-up exams will be given unless arranged ahead of time with a valid excuse (e.g. athletic tournament, hospitalization, etc). I do not curve or round grades.
TENTATIVE CLASS SCHEDULE

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Lecture topics</th>
<th>Chapters</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan 11/13</td>
<td>Introduction to physiology</td>
<td>1-6</td>
</tr>
<tr>
<td>2</td>
<td>Jan 18/20</td>
<td>Nervous system</td>
<td>7-10</td>
</tr>
<tr>
<td>3</td>
<td>Jan 25/27</td>
<td>Nervous system</td>
<td>7-10</td>
</tr>
<tr>
<td>4</td>
<td>Feb 1/3</td>
<td>Nervous system</td>
<td>7-10</td>
</tr>
<tr>
<td>5</td>
<td>Feb 8/10</td>
<td>Cardiovascular system</td>
<td>14-16</td>
</tr>
<tr>
<td>6</td>
<td>Feb 15/17</td>
<td>Cardiovascular system</td>
<td>14-16</td>
</tr>
<tr>
<td>7</td>
<td>Feb 22/24</td>
<td>Midterm 1 – Feb 15; Immune system</td>
<td>17</td>
</tr>
<tr>
<td>8</td>
<td>Mar 1/3</td>
<td>Respiratory system</td>
<td>18</td>
</tr>
<tr>
<td>9</td>
<td>Mar 7-11</td>
<td>Spring Break ☺ (no classes)</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Mar 15/17</td>
<td>Urinary system</td>
<td>19</td>
</tr>
<tr>
<td>11</td>
<td>Mar 22/24</td>
<td>Fluid balance</td>
<td>20</td>
</tr>
<tr>
<td>12</td>
<td>Mar 29/31</td>
<td>Midterm 2 – Mar 29; Endocrine system</td>
<td>13</td>
</tr>
<tr>
<td>13</td>
<td>Apr 5/7</td>
<td>Digestive system</td>
<td>21, 22</td>
</tr>
<tr>
<td>14</td>
<td>Apr 12/14</td>
<td>Reproductive system</td>
<td>23</td>
</tr>
<tr>
<td>15</td>
<td>Apr 19/21</td>
<td>Review</td>
<td></td>
</tr>
</tbody>
</table>

Important Dates:
- Mar 7-12 – Spring break (no class)
- Mar 28 – Final date for dropping with a W
- Apr 25-30 – Final exam period

*** I reserve the right to make changes to this schedule throughout the semester but I will inform you of any changes in a timely fashion ***

Letter grades will be assigned according to the following scale:
- A: >90;
- B: 80-89.9;
- C: 70-79.9;
- D: 60-69.9;
- F: <60.

CLASS EXPECTATIONS AND ACADEMIC MISCONDUCT:
Students will be expected to follow the University of Texas at Tyler Honor Code.

Submitting plagiarized work to meet academic requirements including the representation of another’s work or ideas as one’s own; the unacknowledged work for word use of another person’s ideas; and/or the falsification, or dishonesty in reporting research results shall be grounds for charges of academic misconduct. Any cheating or other types of academic misconduct will be reported to the university administration and at minimum will result in automatic failure of the course. Use of electronic devices (e.g. phones, tablets, smart watches, etc) during exams is strictly forbidden.