2015

BIOL 127-10 Life Investigation II Lab

Neema Nourian
Nourian@xavier.edu

Follow this and additional works at: http://www.exhibit.xavier.edu/biology_syllabi_summer_2015

Recommended Citation
http://www.exhibit.xavier.edu/biology_syllabi_summer_2015/6

This Restricted-Access Syllabus is brought to you for free and open access by the Biology Syllabi 2015 at Exhibit. It has been accepted for inclusion in Biology Syllabi Summer 2015 by an authorized administrator of Exhibit. For more information, please contact exhibit@xavier.edu.
INSTRUCTOR: Neema Nourian (office: Albers 105C; phone: 745-3808; email: nourian@xavier.edu)

OFFICE HOURS: MTWF 9 - 10

COURSE DESCRIPTION AND COURSE GOALS

BIOL 127-10 (Life Investigation II Lab) is an introductory biology laboratory course designed for non-majors. This course will cover the scientific process, anatomy and physiology, and nutrition. More specifically, by the end of this course the successful student will have a better understanding of:

1. How the process of science works, how scientific experiments are designed and conducted, how the results are interpreted, and how a scientific paper is written
2. The basic components of living cells and the differences between prokaryotic cells and eukaryotic cells
3. The major animal tissues, their composition, their locations, and their functions
4. A basic understanding of the structures and functions of the following human organ systems:
   - Integumentary system
   - Skeletal system
   - Muscular System
   - Nervous System
   - Special Senses
   - Cardiovascular System
   - Digestive System
   - Immune System
   - Urinary System
   - Reproductive Systems

Even though this course is independent of Biology of Aging (BIO106-20), every attempt has been made to coordinate the two courses.

COURSE GRADE (total possible points: 350)

Your grade for the course will be determined as follows:
1. Exams: 100 points each = 300 points
2. Scientific Paper: 50 points

Scale

A: 93%-100%   B+: 87%-89%   B: 80-82%   C: 73%-76%   D+: 67-69%   D: 60% - 62%
A-: 90%-92%   B: 83%-86%   C+: 77%-79%   C-: 70%-72%   D: 63%-66%   F: <60%

DESCRIPTION OF PROJECTS

SCIENCE PROJECT AND SCIENTIFIC PAPER. As a team, you will design and perform a scientific experiment in class. After the experiment is completed, each person will write a complete scientific paper (i.e., Title, Abstract, Introduction, Methods and Materials, Results, and Discussion, and References) on that experiment. (You will be given guidance on how to write a scientific paper.)
COURSE POLICIES

I. ATTENDANCE. Attendance is mandatory. There are no lab make-ups.

II. ACADEMIC DISHONESTY. Academic dishonesty in any form may result in failing the exam, the course, and/or additional disciplinary action.

III. MISSED EXAMS. If you miss an exam for a valid reason, you will have an opportunity to make up that exam, provided you contact the instructor no later than one day after the exam was given.

IV. LATE PAPER. If the paper is turned in late, there will be a 10% reduction in the paper grade for each day the paper is late.

TEXT
None.

<table>
<thead>
<tr>
<th>LAB</th>
<th>DATE</th>
<th>TOPIC</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Monday, May 11</td>
<td>The Process of Science Sources of Evidence</td>
<td>Handout</td>
</tr>
<tr>
<td>2</td>
<td>Tuesday, May 12</td>
<td>Cells and Tissues Integumentary System</td>
<td>Handout</td>
</tr>
<tr>
<td>3</td>
<td>Wednesday, May 13</td>
<td>Integumentary System (Continued) Skeletal System</td>
<td>Handout</td>
</tr>
<tr>
<td>4</td>
<td>Thursday, May 14</td>
<td>EXAM 1 Muscular System</td>
<td>Handout</td>
</tr>
<tr>
<td>5</td>
<td>Friday, May 15</td>
<td>Nervous System Special Senses</td>
<td>Handout</td>
</tr>
<tr>
<td>6</td>
<td>Monday, May 18</td>
<td>Special Senses (Continued) Cardiovascular System</td>
<td>Handout</td>
</tr>
<tr>
<td>7</td>
<td>Tuesday, May 19</td>
<td>EXAM 2 (on all the material covered since Exam 1) Digestive System</td>
<td>Handout</td>
</tr>
<tr>
<td>8</td>
<td>Wednesday, May 20</td>
<td>Immune System</td>
<td>Handout</td>
</tr>
<tr>
<td>9</td>
<td>Thursday, May 21</td>
<td>Urinary System Reproductive System</td>
<td>Handout</td>
</tr>
<tr>
<td>10</td>
<td>Friday, May 22</td>
<td>EXAM 3 (on all the material covered since Exam 2)</td>
<td>Handout</td>
</tr>
</tbody>
</table>