LABORATORY POLICIES

BIO 141
Human Anatomy and Physiology I
4 Credits

INSTRUCTOR INFORMATION

Instructor:
Office Location:
Office Phone:
Office Hours:
Email Address:

ATTENDANCE
Regular attendance is expected. Please be on time. Students arriving more than ten minutes late will not be permitted in the laboratory. Attendance will be recorded each lab period. Those students who consistently come in late or leave early may not be given credit for attending lab. A student is responsible for knowing any material covered in the lab whether he/she was in attendance or not. Only one laboratory session may be missed without a grade penalty. Any additional absences should be discussed with the instructor to determine acceptability. Additional unexcused absences will result in a 5% grade reduction (per missed lab) on the corresponding lab exam.

MATERIALS
Required:
***Use Table of Contents and label each exercise with its corresponding exercise number***

Recommended:

The student will be required to furnish his/her self with all materials necessary for the completion of the course material. These items include but are not limited to the following: course textbook, lab manual, recommended material, gloves (non-latex)*, goggles*, pens, and writing utensils.

*These items are required when working with preserved specimens, during dissection exercises, and other labs noted on the schedule.

Required material also includes printouts located on the Alexandria Biology Laboratories webpage:
http://blogs.nvcc.edu/albio/
It is recommended that you print these documents out at the beginning of the semester to prevent internet connectivity issues from interfering with your studies.

EVALUATION
The laboratory grade is 30% of the course grade. Lab exams are used to evaluate your progress. A passing grade must be received in the laboratory in order to pass the course.

PRACTICALS (LAB EXAMS)
Six practicals (lab exams) will be given throughout the semester and will total 325 points. No unexcused makeup exams will be offered. Documented emergencies and extenuating circumstances will be considered. If the instructor is informed of the absence prior to the scheduled exam, arrangements may be made to take the exam at an alternative time designated by the instructor. A request made in writing must be made and the instructor should be left with phone numbers (work and home) to make such arrangements. Permission to take the exam will only be granted for legitimate reasons. No Exceptions.

If school is closed on the day a practical is scheduled, the evaluation will be given during the next lab session.
EXTRA CREDIT
Throughout the semester you may be assigned 0 to 30 points (maximum total) of extra credit to be applied to your laboratory grade. Assigned extra credit assignments may include but are not limited to pre- and post-lab quizzes, bonus exam questions, and topic review questions. Extra credit assignments will be assigned at the sole discretion of the instructor.

EQUIPMENT
All work surfaces must be kept clean and neat. Laboratory equipment and supplies must be properly used and maintained; a grade penalty may be imposed if not adhered to. This is especially important in the handling and maintaining of microscopes. Protective gloves and goggles must be purchased for dissection activities.

LABORATORY CONDUCT
Food and beverages are not permitted in the laboratory. Please turn off your cell phones, alarm watches, etc. during the laboratory session. A report of abusive behavior on the part of any student in working with the personnel in the Science Lab may result in the student receiving a “F” for the course.

Open toed shoes must not be worn in the laboratory. If the lab you are performing requires goggle, you must wear them. You will be dismissed from the laboratory for that day if you are not obeying the safety rules.

ACADEMIC HONESTY
Each student is expected to maintain the highest standards of honesty and integrity in academic matters. Cheating is a violation of professional ethics and college policy. Any student found cheating will result in an automatic failure of that assignment with possible expulsion from the course, after which NVCC reserves the right to take further disciplinary action. Cheating involves BOTH giving and receiving information that is to be carried out individually. Plagiarism is also considered cheating and includes (but is not limited to) copyping your classmates’ work or published works without providing proper citations.

SPECIAL NEEDS
If you have special needs, problems and/or accommodations, please address these with me at the beginning of the session. If you are seeking accommodations based on a disability, you must provide a disability sheet, which can be obtained from the counselor for special needs.

SCHOOL CLOSING AND EMERGENCY AND EVACUATION PLAN
In the event of inclement weather, please check the NVCC homepage for school closing information. If the college is scheduled to re-open at a time when at least 45 minutes of class would remain, you will be required to attend class.

A framed emergency evacuation plan is located near the door to the classroom. This plan describes the evacuation procedures and route that must be followed in case of emergency. If an event occurs that requires evacuation, do not use the elevators, and once outside move at least 300 feet away from the building. Before leaving you should take all personal belongings, as time permits, because there is no assurance that you will be allowed to return. I will assist any individual with mobility disabilities in exiting the building.

Instructor reserves the right to alter this document at his/her discretion during the semester.
## LABORATORY SCHEDULE

**BIO 141 – 1st 8 Weeks**  
**Human Anatomy and Physiology I**  
4 Credits

If weather conditions cause the cancellation of a lab that involves a quiz or practical, the evaluation will take place during the next lab period.

<table>
<thead>
<tr>
<th>Lab</th>
<th>Date</th>
<th>Topic</th>
<th>Lab Exercises Pages</th>
</tr>
</thead>
</table>
| 1   | Tues Aug 25| Laboratory Policies/Schedule/Safety  
The Language of Anatomy  
Organ Systems Overview                                              | Print from website  
Ex. 2 pp. 7-21  
Ex. 3 pp. 23-35 |
| 2   | Thurs Aug 27| The Scientific Method and Metric System  
The Microscope  
The Cell: Anatomy and Division                                          | Ex. 1 pp. 1-6  
Ex. 4 pp. 37-48  
Ex. 5 pp. 49-63 |
| 3   | Tues Sept 1 | ASC – Science Study Skills  
The Cell: Transport Mechanisms and Cell Permeability (Selected Exercises) | Ex. 6 pp. 65-78 |
| 4   | Thurs Sept 3| **Lab Exam 1 (25 pts) – Ex. 1-4**  
Classification of Tissues  
The Integumentary System                                              | Ex. 7 pp. 79-105  
Ex. 8 pp. 107-121 |
| 5   | Tues Sept 8 | **Lab Exam 2 (50 pts) – Ex. 5-8**  
Overview of the Skeleton: Classification and Structure of Bones and Cartilages  
The Axial skeleton | Ex. 9 pp. 123-136  
Ex. 10 pp. 137-164 |
| 6   | Thurs Sept 10 | The Appendicular Skeleton  
Articulations and Body Movements                                      | Ex. 11 pp. 165-186  
Ex. 12 pp. 187-205 |
| 7   | Tues Sept 15 | Continue Skeleton Exercises                                                                | Ex. 9-12 |
| 8   | Thurs Sept 17| **Lab Exam 3 (75 pts) - Ex. 9-12 and Printout**  
Microscopic Anatomy and Organization of Skeletal Muscle  
Gross Anatomy of the Muscular System                                  | Ex. 13 pp. 207-216  
Ex. 14 pp. 217-254 |
| 9   | Tues Sept 22 | Continue Skeletal muscles                                                                | Ex. 14 pp. 217-254 |
| 10  | Thurs Sept 24 | Continue Skeletal muscles                                                                | Ex. 14 pp. 217-254 |
| 11  | Tues Sept 29 | **Lab Exam 4 (75 pts) Ex. 13-14 and Printout**  
Histology of Nervous Tissue  
Gross Anatomy of the Brain and Cranial Nerves  
*GOOGLES*            | Ex. 15 pp. 255-266  
Ex. 16 pp. 267-291 |
| 12  | Thurs Oct 1 | The Spinal Cord and Spinal Nerves  
Human Reflex Physiology                                                   | Ex. 17 pp. 293-308  
Ex. 19 pp. 321-334 |
| 13  | Tues Oct 6 | **Lab Exam 5 (50 pts) – Ex. 15, 16, 17, 19**  
The Autonomic Nervous System  
General Sensation                                                        | Ex. 18 pp. 309-320  
Ex. 20 pp. 335-343 |
| 14  | Thurs Oct 8 | Special Senses: Anatomy of the Visual System  
Special Senses: Visual tests and experiments  
Special Senses: Hearing and Equilibrium  
Special Senses: Olfaction and Taste (Selected Exercises) | Ex. 21 pp. 345-357  
Ex. 22 pp. 359-367  
Ex. 23 pp. 369-385  
Ex. 24 pp. 387-394 |
| 15  | Tues Oct 13 | NO LABS                                                                              | |
| 16  | Thurs Oct 15 | **Lab Exam 6 (50 pts) – Ex. 18, 20-24**                                            | |

* Anatomy and Physiology Lab Manual: Customized for AL Bio 141&142 by Marieb & Smith