



BIOL 2401.103
Anatomy and Physiology I
Summer 2012
Syllabus – Israel

<u>COURSE TITLE</u>	Anatomy and Physiology I
<u>COURSE NUMBER</u>	BIOL 2401.103
<u>CREDITS</u>	4 sch
<u>MODALITY</u>	Web-enhanced
<u>START/END DATE</u>	June 4 – July 5, 2012
<u>INSTRUCTOR</u>	Bonnie Israel
<u>PHONE NUMBER</u>	432.335.6560
<u>EMAIL</u>	bisrael@odessa.edu
<u>OFFICE LOCATION</u>	Wilkerson Hall Room 106

PRE-REQUISITES

Pass reading on THEA, COMPASS, or equivalent. Eligible for enrolment in College Algebra (MATH 0375) by passing math on THEA, COMPASS, or equivalent OR by passing the developmental math sequence. Corequisite: HPRS 1106 (or consent of department chair).

REQUIRED TEXTS

- Textbook** Marieb and Hoehn. Human Anatomy and Physiology. 8th edition. Benjamin Cummings: 2010.
- Lab Manual** Marieb and Mitchell. Human Anatomy and Physiology Laboratory Manual. 9th edition. Benjamin Cummings: 2011.

COURSE FOCUS

This is the first semester of a two-semester course in which anatomy and physiology are integrally presented. Students learn anatomic and physiologic terminology, the principles of the relationships between form and function and basic mathematical calculations converting between the metric and English systems of measurement. Students also learn specific information about and concepts of basic chemistry, cell structure and chemistry, cell reproduction and tissue structure. The anatomy and physiology of four of the body's 11 systems are also presented. In laboratory investigations students acquire knowledge about bones, muscular function and microscopic examination of tissues. Lab fee is required.

The instructor will use lectures, discussions, demonstrations, and experiments during lecture and lab to familiarize students with the topics discussed.

COURSE OBJECTIVES

1. The student will be able to recognize and use the language and mathematical conversions required for exploration in the scientific and medical fields.
2. The student will be able to identify the molecules that are the building blocks of the human body.
3. The student will learn the basic chemistry needed to conceptualize the inner workings of the body's organ systems.
4. The student will be able to identify the activities of various cellular structures responsible for maintaining life.
5. The student will be able to identify the structures and functions of the first four organ systems, as well as how each system interacts with the others.

SCANS

1, 3, 6, 9

COURSE EVALUATION

Lecture - 650 points total

Exams – 4	400 points (100 points each)
Final Exam (comprehensive)	200 points
Synapse Study Lab	50 points

Students are required to spend at least one hour per week in the study lab (Synapse Lab). During this time, students will be expected to complete all weekly assigned quizzes.

Additional Synapse assignments (e.g., supplemental text reading and pre-lab worksheets) will be required which will also factor into your Synapse participation grade.

Laboratory – 250 points total

Practical Exams – 5	250 points (50 points each)
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GRADE DETERMINATION

The lecture and laboratory performances are calculated to yield only one grade. The grade is calculated by adding the total number of points earned and dividing that number by the total number of points available (1000). This score will be multiplied by 100 to yield a percentage. This is the grade you will see on your "report card."

The student may calculate where he stands at any point during the semester by performing the following calculations:

1. Add up how many points have been earned.
2. Add up how many possible points have been made available up until that time.
3. Divide earned points by possible points.
4. Multiply this number by 100.

GRADING SCALE

90-100	A
80-89	B
70-79	C
60-69	D
Below 60	F

COURSE POLICIES

1. **Attendance** Regular and punctual attendance is necessary for the successful completion of the course. While the instructor will neither credit nor deduct points to be computed toward the final grade based on attendance/absence, it will be a subjective factor taken into consideration should your standing at the end of the course be "border-line."
In case of absence, it is the student's responsibility to contact the instructor. Students absent on official school business are entitled to make up school work missed. In all other cases, the instructor will judge whether or not the student will be permitted to make up work and will decide on the time and nature of the make-up. However, the student is responsible for work missed, regardless of the cause of the absence. The student must discuss such work with the instructor and should do so immediately upon returning to school. Communication between the student and instructor is most important, and it is the student's responsibility to initiate such communication. If the student does not appear at the prearranged time for makeup work, he forfeits his right for further makeup of that work.
2. **Tardiness** Regular and punctual attendance is expected at Odessa College and is critical to academic success. In the rare event that a student is unavoidably detained, the student must discuss the reason for his tardiness with the instructor immediately following class. Students arriving late may be counted as absent from the class for that period.
3. **Withdrawal** If a student is unable to complete a course in which he is registered, it is the student's responsibility to officially withdraw from the course prior to the appropriate date. Students are strongly encouraged to contact the instructor prior to withdrawing from the course, as knowledge of his class standing will allow the student to make an informed decision with regard to withdrawal. To withdraw from one or more courses at or prior to the withdrawal date of a semester or term, students must complete a withdrawal form in the Registrar's office. Until a student is officially withdrawn by the registrar, the student *remains on the class roll and may receive a grade of F for the course.*

4. Classroom Etiquette

- The use of any hand-held electronic device (e.g., cell phones, iPods, headphones, etc.) is absolutely not allowed. These devices should be **turned off** while in the classroom and lab.
- These devices are to be placed in a back-pack or purse (out of sight and mind). Disruption of the class by use of or noise from an electronic device will result in a verbal warning for the first violation. The second violation will result in a 10-point deduction from the next exam. Following the third violation, the student will not be allowed in class and will be sent to administration for disciplinary action.
- Class participation and discussion is strongly encouraged. However, discussion should be courteous and not conducted when the instructor or fellow students are talking. Constant disruptions will result in removal from the classroom, and the student will need to meet with the instructor during office hours prior to returning to class.
- Food and drinks are **absolutely not allowed** in the laboratories (OC policy).
- Exam grades will not be released verbally or electronically until a minimum of 24 hours has elapsed since the administration of the exam.
- Odessa College policy requires that student grievances first be discussed with the instructor. Unresolved issues may then be discussed with the instructor's immediate supervisor.

5. Exams See Course Evaluation (above).

ACADEMIC DISHONESTY WILL NOT BE TOLERATED. Students caught cheating will be asked to leave the exam immediately, will receive a 0 for the exam, and will be subject to further disciplinary action. The submission of assignments that are not the student's original work (plagiarism) will be scored as a 0. Repeat offenses will result in removal from the course with a grade of "F".

MAKE-UP EXAM POLICIES

1. **Make-up exams will be administered at the discretion of the instructor and absolutely only in EXTREME circumstances.**
2. **Any request must be accompanied by written documentation confirming the reason for the absence. The student should contact the instructor prior to missing the exam when possible.**
3. **Each student will be allowed ONLY ONE make-up exam per semester, again only in extreme circumstances and at the discretion of the instructor as described above. The "one make-up exam" rule includes both lecture and lab exams. **NO EXCEPTIONS.****
4. **Lecture exams – If the instructor decides to provide a make-up exam, the exam will include oral questions and essays in addition to normal testing format and will be administered on the final day of the semester. **NO EXCEPTIONS.****
5. **Lab exams – If it is known prior to a lab practical that it must be unavoidably missed, arrangements should be made to take the practical during another lab. After receiving the instructor's approval for this type of make-up exam, it is solely the student's responsibility to identify alternative lab times. Prior permission of all involved instructors must be obtained. Lab practicals must be taken during one of the regularly scheduled lab periods. **NO EXCEPTIONS.****
6. **In order to be eligible for any bonus and/or curve points added to lecture and laboratory exams, the student MUST have taken the exam with his course section at the regularly scheduled time. **NO EXCEPTIONS.****
7. **There will be no make-up for the final exam, and the final must be taken at the assigned time. **NO EXCEPTIONS.****

THERE WILL BE NO EXTRA CREDIT PROJECTS!

6. Tutoring on Campus

- Assistance with course material is available to students in all science classes in the **Synapse Lab** (WH 117). Work areas for studying, professional tutoring, computers with Internet access and printers, molecular models, etc. are available on first-come basis.
- The **Learning Resource Center** (Library) provides research assistance via the LRC's catalog (print books, videos, e-books) and databases (journal and magazine articles). Research guides covering specific subject areas, tutorials, and the "Ask a Librarian" service provide additional help.
- **Synapse Study Lab Requirement** Students are required to spend at least one hour per week in the tutor lab (Synapse Lab). Attendance and assignments will determine the tutor lab points. Student I.D. is required for participation in the Synapse.
- The **Odessa College Student Success Coaches** will help you stay focused and on track to complete your educational goals. If an instructor sees that you might need additional help or success coaching, he or she may submit a Retention Alert or a Starfish Alert. A Student Success Coach will contact you to work toward a solution.

7. Special Needs Odessa College complies with Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. If you have special needs or concerns pertaining to your access and participation in this or any other course at Odessa College, please do not hesitate to contact me. You may also call the Office of Disability Services at 432.335.6861 to request assistance and accommodations.

8. Student Email Please access your Odessa College student email by following this link to set up or update your account: <https://www.odessa.edu/gmail/>. **All communication will be submitted using your Odessa College email and through announcements posted to Blackboard.**

9. Technical Support For BlackBoard assistance, contact the Student Success Center at 432.335.6878 or online at https://www.odessa.edu/dept/ssc/helpdesk_form.htm.

10. Important School Policies Information regarding student support services, academic dishonesty, disciplinary actions, special accommodation, or students' and instructors' rights to academic freedom may be found in the Odessa College Student Handbook

Students who habitually violate any of the above policies may be asked to withdraw from the course.

The instructor reserves the right to change any information contained in this document with adequate notice given to the student.



BIOL 2401.103
Anatomy and Physiology I
Summer 2012
Lecture Schedule – Israel

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TENTATIVE TOPIC SCHEDULE

06.04, M	
Chapter 1	Syllabus and introduction The human body: an orientation
06.05, T	
Chapter 2	Chemistry comes alive
06.06, W	
Chapter 3	Cells: the living units
06.07, TH	
Chapter 3	Cells: the living units
06.08, F	EXAM 1 – Chapters 1, 2, 3
Chapter 4	Tissues: the living fabric
06.11, M	
Chapter 5	Integumentary system
06.12, T	
Chapter 6	Bones and skeletal system
06.13, W	
Chapter 6	Bones and skeletal system
06.14, TH	
Chapter 8	Joints
06.18, M	EXAM 2 – Chapters 4, 5, 6, 8
Chapter 9	Muscles and muscle tissues
06.19, T	
Chapter 9	Muscles and muscle tissues
06.20, W	
Chapter 11	Fundamentals: nervous system
06.21, TH	
Chapter 11	Fundamentals: nervous system
06.25, M	EXAM 3 – Chapters 9, 11
Chapter 12	Central nervous system
06.26, T	
Chapter 12	Central nervous system
06.27, W	
Chapter 13	Peripheral nervous system
06.28, TH	
Chapter 13	Peripheral nervous system
07.02, M	EXAM 4 – Chapters 12, 13
Chapter 14	Autonomic nervous system
07.03, T	
Chapter 14	Autonomic nervous system

IMPORTANT DATES TO REMEMBER

07.04, W	Holiday – Independence Day
07.05, TH	Final exam

**Anatomy and Physiology I
Tentative Laboratory Schedule Summer I 2012**

Lab Manual: *Human Anatomy and Physiology Laboratory Manual*, 9th ed., Marieb
Lab Atlas: *Atlas of Anatomy and Physiology*, 4th ed., Eder, Kaminsky and Bertram

Policies: Five equally weighted lab practical examinations will be given. The average of these exams will count as a portion of the total Anatomy and Physiology I grade, which accounts for approximately 30% of the final grade.

The laboratory portion of Anatomy and Physiology is designed to provide a "hands-on" learning experience; therefore, participation in all laboratory periods is necessary to fully meet course requirements. Excessive absences will have a direct impact on your final lab grade. Due to the seating capacity in the laboratory, students must attend the lab section for which they are registered. Due to the extensive set up required for lab practical examinations and the brevity of the summer schedule, *there will be no make-up practical examinations.*

Academic dishonesty of any form will not be tolerated. If you are caught cheating you will receive a zero for that assignment. A second offense will result in expulsion from the course with a grade of "F".

Lab Schedule

DATE		TOPIC
Jun 04	M	Synapse Introduction; Anatomical Orientation
Jun 05	T	Chemistry
Jun 06	W	Microscope
Jun 07	TH	Practical Exam 1 ; Cell
Jun 08	F	Mitosis
Jun 11	M	Histology, Part 1
Jun 12	T	Histology, Part 2
Jun 13	W	Practical Exam 2 ; Axial Skeleton
Jun 14	TH	Axial Skeleton
Jun 18	M	Appendicular Skeleton
Jun 19	T	Practical Exam 3 ; Metrics
Jun 20	W	Muscles, Part 1
Jun 21	TH	Muscles, Part 2
Jun 25	M	Practical Exam 4 ; Central Nervous System
Jun 26	T	Peripheral Nervous System
Jun 27	W	Special Senses
Jun 28	TH	Special Senses Clinical Applications

Jul 02	M	Practical Exam 5
Jul 03	T	Study for exams
Jul 04	W	Holiday (no classes)
Jul 05	TH	Lecture Final Exam

**Use of cell phones or
other electronic
equipment will NOT be
allowed in the lab.**

**Please, make certain that
they are always turned
OFF before entering the
room, No exceptions.**

