



# Dallas High School Home of the Dragons



## Intro. To Anatomy & Physiology I & II

BI 171/BI 172

2013 - 2014

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**Office Hours:** Tues-Friday 3:00-3:30, Tues and Thurs 11:50-1:20, and additional times by arrangement.

**Prerequisite:** Biology with a grade of “C” or better.

**Course Description:** This course is designed for students who would like to get an in-depth background on the workings of the human body, be it for a career in the health occupations field, or simply personal interest. Over the course of the year, students will learn about each system of the body through organ dissection, tissue slides, numerous video presentations, and lecture. One of the highlights of the course is the addition of professional speakers from local hospitals and clinics. The speakers supplement the text and the instructor and give students a real-world look at many health professions, as they bring their medical backgrounds into the classroom. An in-depth fetal pig dissection will be done during the second semester of the course, covering the musculoskeletal system, internal organs, arteries and veins, the brain, and urogenital system.

***This course is available for College Credit Now through Chemeketa Community College. This credit (3 for BI 171, and 3 for BI 172 is approximately \$25, for both courses!) is fully transferable to four year colleges as either anatomy credit or as science elective credit. Check with your specific college of interest for details.***

**Text:** Hole’s Essentials of Human Anatomy & Physiology; Shier, Butler, and Lewis; 8<sup>th</sup> ed.; 2003

**Lab Manuals:** Hole’s Essentials of Human Anatomy & Physiology; Shier, Butler, and Lewis; 8<sup>th</sup> ed.; 2003; Laboratory Manual For Anatomy & Physiology; Allen & Harper, 3<sup>rd</sup> ed. 2009; select WARD’s labs; and PhotoManual& Dissection Guide of the Fetal Pig; Fred Bohensky; 2002

### **Course Outline: First Semester**

	Unit Topic	Summative Assessment (Standards 1-3 are assessed, in part, on every exam listed below)
Unit 1:	Body Planes; Basic Anatomical Terminology; Cells and Cell Division	Terminology and Body Planes Exam(Ch.1)
Unit 2:	Tissues; Integumentary System (skin)	Tissues and Skin Exam (Chs.5&6)
Unit 3:	Skeletal and Muscular Systems	Bone Identification (skeleton & skull); Muscle Identification Skeletal System Exam (Ch. 7) Muscular System Exam (Ch.8)
Unit 4:	The Nervous System and Senses	Nervous System and Senses Exam (Chs.9&10)
Unit 5:	Endocrine System (hormones)	See final exam
Final Exam	Final Exam	Cumulative Multiple Choice Final Exam (covering all chapters above)

### **Course Outline: Second Semester**

	Unit Topic	Summative Assessment (Standards 1-3 are assessed, in part, on every exam listed below)
Unit 1:	The Blood	Blood Exam (Ch.12)
Unit 2:	Complete Fetal Pig Dissection, including superficial & deep muscles,& body cavities	Pig Superficial & Deep Muscle ID Exam Pig Thoracic and Abdomino-pelvic Cavities ID Exam
Unit 3:	The Heart and Cardiovascular System	Heart and Cardiovascular System Exam (Ch.13)
Unit 4:	Lymphatic System	Lymphatic System Exam (Ch.14)
Unit 5:	Digestive and Respiratory Systems	Digestive System Exam (Ch.15) Respiratory System Exam (Ch.16)
Unit 6:	Body Temperature & Metabolism; Urinary System; Fluid-Electrolyte and Acid-Base Balance	Urinary System Exam (including Body Temperature and Metabolism, and Fluid-Electrolyte/Acid-Base Balance) (Chs.17-19)
Unit 7:	Human Reproduction and Development	See final exam
Final Exam	Final Exam	Cumulative Multiple Choice Final Exam (covering only second semester chapters above)

### **Standards to Be Assessed:**

Upon successful completion of the course, students should be able to:

1. Standard 1: Communicate using correct biological/anatomical vocabulary.
2. Standard 2: Explain the unifying concepts regarding living things:
  - A. Homeostasis
  - B. Form fits function
  - C. Integration of body systems to maintain a life
3. Standard 3: Describe basic cell physiology.

**Career Related Learning Standards:** Career-related learning standards (CRLS) are fundamental skills essential for success in employment, college, family, and community life. We have integrated the Personal Management standard from the CRLS into all courses at DHS. **This standard will be assessed and communicated independent of the academic grade.** It is included below and mainly includes behaviors that will be assessed in this course.

- **Personal Management Standard:** Exhibit appropriate work ethic and behaviors in school, community and workplace.
  - Students will identify tasks that need to be done and initiate action to complete the tasks.
  - Students will plan, organize and complete projects and assigned tasks on time, meeting agreed upon standards of quality.
  - Students will take responsibility for decisions and actions and anticipate consequences of decisions and actions.
  - Students will maintain regular attendance and be on time daily.
  - Students will maintain appropriate interactions with colleagues.

### **Grading and Assessment:**

Student's final grade for each course will be broken down into two categories:

- 1) **Academic:** based on assessments, tests, projects and performances that measure learning.
- 2) **Personal Management:** based on homework completion and other behaviors measuring the CRLS personal management standard.

**The Final grade is calculated as follows: 75%** of the course grade will be based on the **Academic** grade and **25%** on the **Personal Management** grade.

- Any items included in the Academic grade (PA) may be retaken and the higher grade recorded. Teachers may extend the retake time period, but as a rule all retakes need to be done within **2 weeks** of the initial assessment.
- Students will complete extra preparation before retaking an assessment.
- Personal management work turned in late may be reduced by up to 50% credit.
- Retakes are not allowed on Personal Management assignments.
- Students must schedule performance retakes at their teacher's convenience. (Speech, drama, labs.)

**Academic Integrity:** We expect students to express academic integrity by doing their own work and properly documenting information gathered from other sources. Students who violate the principles of academic integrity will be subject to disciplinary consequences (see Insubordination section of the on-line student agenda).

**Extra Credit:** Extra credit is not offered, however students may be given additional opportunities to show mastery.

**Cell Phones and Electronic Devices:** Mobile phones are not to be in use or in open view within classrooms, restrooms, locker rooms, or during lockdown situations. Misuse of mobile phone or electronic device will lead to the following consequences:

- ☐ 1st offense - confiscated device is delivered to the main office and returned to the student at the end of the school day.
- ☐ 2nd offense - confiscated device is delivered to the main office where parent/guardian will be contacted to reclaim possession.
- ☐ 3rd offense – discipline referral for “insubordination”, parent contact, and student will no longer be allowed to have the device at school without administrator permission

Personal Communication Devices Board Policy:

<http://policy.osba.org/dallas/j/jfceb%20r%20g1.pdf>

**College Course:** Please be reminded that this is an entry-level college freshman course. As such, students should be prepared to put in the necessary work and study time required of such a course. For those pursuing a career in the health services field, this year can put them an appreciable jump ahead of their peers enrolling also in this field of study.

**\*\***At the time of printing this document there were 32-33 students enrolled per period. I cannot stress enough to students and parents the need for complete cooperation and focused attention during class time. It is nice to see the interest, but at the same time can be a challenge for teacher and students alike. I need both parents and students to understand that I simply cannot deal with talkative and disruptive students. My job is to teach and give necessary skills and knowledge needed. Teaching and learning are compromised when disruptions are frequent. Should problems arise, I will speak first with the student and then contact a parent or guardian.

**Tardies and Unexcused Absences:** Points will be given towards the Personal Management grade at the end of each grading period (9 weeks/18 weeks) for daily attendance and punctuality. Points will be deducted for each tardy and each unexcused absence in that 9-week grading period. Overly disruptive behavior may also result in loss of attendance points.

**Parents/Guardians:** Please keep the rest of the syllabus and send this one back with your student. By signing this form, you acknowledge that you have read and fully understood the expectations, rules, and standards associated with Anatomy and Physiology. You also fully understand the need for complete cooperation from your student in a class of this size. Should you have questions, please call 503-623-8336 ext 915 or email using the email address provided in this document.

Parent Name:

Parent Signature:

Parent email Address:

Parent Phone:

Student Name:

Student Signature: