

COURSE PREFIX & NUMBER: BIO 238

INSTRUCTOR: _____

OFFICE: _____

OFFICE TELEPHONE: _____

OFFICE HOURS: _____

Get the information above from your instructor on the first day of class.

**LEAD INSTRUCTOR FOR BIO 238:
Larry Walker, phone: 720-5605
E-mail: larry.walker@tridenttech.edu**

**ADMINISTRATIVE ASSISTANT:
Emily Bryant, phone: 574-6015**

COURSE SYLLABUS

COURSE TITLE:	Anatomy for Massage Therapy	PREFIX & NUMBER	BIO 238
LECTURE HOURS:	2	LAB HOURS:	3
CONTACT HOURS:	5	CREDIT HOURS:	3

CATALOG DESCRIPTION: This course is designed for the massage therapy student. It emphasizes the muscular and skeletal systems with laboratory exercises on bones, bone markings and the muscles, addressing their origins, insertions, innervations and actions. Consideration will be given to various other systems as they relate to the massage therapy student.

Prerequisite: Admission to the Massage Therapy Program: AHS 104

Co-Requisite: PTH 120; PTH 121

Warning: Drop/Add must be done before the deadline during the first week of classes.

REQUIRED MATERIALS

- *Lecture Textbook:* McKinley, O’Laughlin. Human Anatomy. 1st edition. McGraw Hill. 2006
- *Laboratory Manual:* Bowden, Bowden. An Illustrated Atlas of the Skeletal Muscles. 1st edition. Morton Publishing Company. 2002

OPTIONAL MATERIALS

- A set of coloring pencils or markers.

GRADING SYSTEM AND POLICY:

Grading is accomplished by combining all points which you have earned for lecture exams, daily grades, laboratory practicals, and the final exam and converting this number to a percentage score.

<p>METHOD OF EVALUATION</p> <p style="text-align: right;">Points:</p> <p>Midterm & Final Lab Practicals 200</p> <p>Daily grades-quizzes, lab exercises ... 200</p> <p>Four Major Lecture Exams..... 400</p> <p><u>Departmental Final Exam 200</u></p> <p>Total 1000 points</p>	<p>Final grades will be awarded according to the following grading scale:</p> <p>910-1000 pts = 90% = A</p> <p>810-909 pts = 81% = B</p> <p>710-809 pts = 71% = C</p> <p>650-709 pts = 65% = D</p> <p>0-649 pts = Below 65% = F</p>
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To determine progress at any time: divide current points earned by points attempted, multiply by 100, then compare to the % in the Grading Scale, above. For example, if a student earned 257 points after two lecture tests (200 points) and a lab practical (100 points), the student's average grade would be 85.6% (B):

$$\frac{\text{Points earned } 257}{\text{Points attempted } 300} \times 100 = .856 \times 100 = 85.6\%$$

Poor attendance may result in a lower or failing grade. See “**Attendance & Withdrawal Policy**” below.

Rarely, a grade of I (incomplete) may be granted, but three conditions **must all** be met, student must:

- (1) provide documented evidence of a family or medical emergency after W deadline, near the semester’s end,
- (2) be passing the course when an I grade is requested, and
- (3) be able to submit all course requirements before mid-term of the next semester (summers included).

Once an I grade is granted, failure to submit any requirement by the instructor’s deadline will result in an F grade.

ATTENDANCE & WITHDRAWAL POLICY:

Before attending classes, you must meet all prerequisites and officially register for all courses. Prompt and regular attendance is your responsibility. You are responsible for all material covered and all assignments made in class. Any time you are absent from a class, laboratory or other scheduled events, it is your responsibility to make satisfactory arrangements for any make-up work permitted by the instructor.

An absence is defined as nonattendance for any reason, including illness, emergency or official leave. If you arrive late to class, you may not be allowed into the classroom and may be considered absent for that period. If you leave before the instructor dismisses class, you may also be considered absent. All class sessions are important. Any time you miss a class you increase your risk of making a failing grade. For example, some departments or individual instructors will count your class participation as a substantial percentage of your grade. Of course, if you are not in class, you will not get the necessary points for your class participation.

If you quit coming or participating in the course and do not officially withdraw by the withdrawal date for each semester, you will receive a grade of F or U. Your instructor cannot assign a grade of W. If you receive financial aid or veterans’ aid, your aid may be revised as a result of any changes in your course schedule.

MAKE-UP TEST POLICY:

Only one make-up is permitted, regardless of reasons. If you are at risk of missing more than one test, then wait to take the course during a more favorable semester. Students automatically get zeroes on all missed work. **Make-ups are refused, unless a student can document serious circumstances that directly conflict with the time of the test.** Make-ups are at the instructor’s convenience and may be in a more difficult format. **A missed make-up gets a zero with no further make-ups allowed for the course.**

It is class policy that no make-ups are allowed for missed quizzes. Typically, an extra quiz is administered that will take the place of a missed quiz! At the instructor’s discretion, early testing for hour exams may be permitted. Due to the format of lab practicals, it should be noted that **lab practical exams CANNOT BE MADE-UP or taken early.** If you miss the midterm practical, then calculate the zero’s affect on your grade and consider withdrawal before the deadline for the current semester.

ELECTRONIC COMMUNICATION DEVICES IN CLASSROOMS:

To minimize classroom disruptions and protect the integrity of test-taking situations, activated electronic communication devices such as pagers and telephones are generally not permitted in classrooms at Trident Technical College. The only exception to this policy will be for on-call emergency personnel (police, fire, EMS), who will be required to notify their classroom instructor of their need for such devices at the beginning of the term and provide documentation verifying their occupation. However, on-call emergency personnel may not leave a testing situation, communicate by electronic means and return to complete an examination. In these cases, instructors should make arrangements for re-testing.

ACCOMMODATIONS FOR STUDENTS WITH SPECIAL NEEDS:

The College will make reasonable accommodations for persons with documented disabilities. Students should notify the Counselor for Students with Disabilities (located in Counseling and Career Development, Building 410, Room 210) and their instructors of any special needs. Instructors should be notified on the first day of classes.

SAFETY:

For your safety, if you have a medical condition that results in seizures, blackouts, etc. (e.g. from epilepsy, diabetes) please inform your instructor. This information will be kept confidential. If you wish to seek accommodations due to a disability, please contact Services for Students with Disabilities, Building 410, Room 210.

INSTRUCTOR AVAILABILITY:

Your instructor is available to you outside of class for academic assistance. Full-time faculty maintain and post regularly scheduled office hours. Part-time faculty are accessible in a variety of ways, which may include conferences before and after class or by appointment, telephone conferences, and E-mail. The phone number for contacting your instructor is provided on your syllabus addendum or cover sheet.

LECTURE PREPARATION:

Specific course objectives are provided for each chapter. These objectives are a type of instructional guide and should be referred to continually. Tentative lecture and lab schedules are attached to this syllabus. Assigned readings should be completed **PRIOR** to attending lecture.

LABORATORY PREPARATION:

The laboratory schedule should be referred to regularly to determine what to read prior to arriving at lab for each session. Much of the laboratory work is self-paced with oversight from the instructor. The laboratory textbook and the lecture textbook are both major information resources for lab exercises and the student will do well to read ahead in order to properly prepare for each laboratory session.

A laboratory practical will be given at midterm and at the end of the term. There will be **NO** make-up for a missed lab practical exam!!

Proper care of the lab equipment is essential in the biology department. The equipment may be expensive or difficult to replace. Students who fail to take care of equipment may be subject to disciplinary action and/or be barred from participating in the laboratory.

As stated in the student handbook, children are prohibited from classes and labs.

OVERALL GOALS FOR THIS COURSE:

1. Review of the following introductory topics:
 - A. Definitions of basic anatomical terminology
 - B. Levels of organization of the human body
 - C. Brief description of the organ systems of the human body
 - D. Language of anatomy
 - E. Homeostasis: definition and mechanisms of maintenance
 - F. Structure of the eukaryotic cell and functions of organelles within
 - G. Review of the four major tissues of the human body
2. Discussion of the structure and function of the integument/integumentary system
3. Discussion of nervous tissue and the nervous system
 - A. Introduction to the organization of the nervous system
 - B. Discussion of nervous tissue structure and function
 - C. Discussion of the CNS and PNS
 - D. Cranial nerves and spinal nerves
4. In depth consideration of skeletal tissue and the skeletal system
 - A. Characteristics of bone tissue and bones
 - B. Classification of different types of bones
 - C. Description of macro and micro-structure of bone tissue
 - D. Bone formation, growth and remodeling
 - E. Role of bone in blood calcium homeostasis
5. Discussion of skeletal articulations of the human body
 - A. Definitions/classifications of articulations
 - B. Dynamic movement/types of movement
 - C. Representative articulations
6. Discussion of muscle tissue and muscles
 - A. Basic comparison of three different muscle types (our work will concentrate on skeletal muscle)
 - B. Micro and macro anatomy of skeletal muscles
 - C. Muscle contraction
 1. Sliding filament theory
 2. Neuromuscular junction
 3. Motor units
 - D. Organization of skeletal muscle fibers (cells)
 - E. Muscle terminology:
 1. Origins and insertions
 2. Actions
 3. Naming of muscles
 4. Innervations of skeletal muscles
 - F. Effects of aging on the muscle system
 - G. Selected muscles will be identified, origins and insertions named, actions noted and some innervations identified.