**Special Topics BMS4844: Human Anatomy, Description:**
This course follows the traditional comparative approach to Human Anatomy along with emphasis on how it can be modified for bio-engineering. Topics include basic understanding of how each tissue/organ have evolved into the current tissue/organ found in humans. Course will discuss the histology and changes in form due to pathology and homeostasis cues. Course emphasizes dissection of cats, various animal organs and the use of surgical techniques. Group work is emphasized to achieve collaborations and tests group proficiency through group practical exams; Individual proficiency is examined through individual practical and written exam. This course has Bio-Chemistry and BMS 2004 as a pre-requisite and fulfills BMS 48xx requirements and exceeds the Pre-Health requirements.

**Learning Outcome:**
After completing this course, you should be able to:
- Demonstrate basic surgical techniques.
- Demonstrate the understanding of handling biohazards and its containment.
- Understanding of comparative anatomy.
- Understand how form is dictated by its function, e.g. Fascicular arrangements of muscles and function.
- Understand each organ systems by observing its histological differences to macro anatomical differences.
- Predict the health consequences of the animal due it its inability to maintain homeostasis.
- Connect how environmental changes can lead to developmental and growth differences
- Understand each system and the evolution of each organs used.
- Understand the pathology of the tissues, organs and systems.
- Understand practical learning.

**Contact:**
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Policies:

- **Attendance:** no more than 2 excused absences (must be excused and e-mail must be sent to instructor within 1 wk of absence, prior notice preferred if possible).
  - Lateness: no more than 4 (15 mins after each class period, beyond this point you will be marked absent). 2 late nesses will constitute an absence.
  - Attendance will affect your grade, so be on time and ready to work.

- Classes will end on the very last day of class and final exam will be cumulative. Please do not expect exams to be scheduled before the last day of class.
  - NO make-ups for missed exams
  - NO extra time for entering exams/quizzes late.
  - NO video recording of the class, however audio recording will be permitted.
  - NO curves will be offered.
  - NO extra credit or work will be offered.

- Please read all the chapters assigned before the meeting of classes.

- **Academic Integrity:**
  - (All syllabi must have a statement about plagiarism. Feel free to cut and paste the text below into your own syllabus.)
  - Plagiarism is the word-for-word reproduction of another writer’s work or ideas; paraphrasing without proper attribution also constitutes plagiarism. Neither will be tolerated in this class. Please see the discussion of plagiarism in the Student Guide of Academic Integrity (http://core.ls.nyu.edu/page/ls.academicintegrity) for more detailed information. Penalties for plagiarism range from a failing grade for a paper or a course to dismissal from the University.
  - The penalty for plagiarism in this class is a failing grade.

- **Students with Disabilities:**
  - Students with disabilities who believe that they may need accommodations in this class are encouraged to contact the Moses Center for Students with Disabilities at (212) 998-4980 as soon as possible to better ensure that such accommodations are implemented in a timely fashion. For more information, see the CSD website: http://www.nyu.edu/life/safety-health-wellness/students-with-disabilities.html
  - Moses Students:
    - Members of Student Services must meet with me within the first 2 classes so arrangements can be made. Any students that fail to identify may not be considered for consideration.

- Communication: by e-mail tsl2@nyu.edu / State full name, ID# and full course # in all correspondences.
- Office hrs: by appt only, please send me an e-mail so we can schedule an appropriate time for us to meet.
- Final Exam schedules are set by the University and therefore I do not have control over this.
  - Please DO NOT assume that the exam will be before the last possible day of the final exam schedule.
  - Please DO NOT schedule any personal events before the last possible day of the final exam schedule.
  - If you miss the final exam and have carried a passing grade, you WILL receive a grade of an INCOMPLETE until the final is taken.
How to study for the course:
1. Read chapters ahead
2. Learn the vocabulary
3. Take notes in class
4. Reread section of the text that corresponds to the work in class.
5. Rewrite your notes with corresponding section of the text.
6. Reread the notes in the morning before class, along with new work.
7. Get notes from colleagues and compare them to yours.

Required Text
- Saladin, Anatomy and Physiology: The Unity of Form and Function 7th Edition;
  - 978-0073403717
- Marieb, Human Anatomy & Physiology Laboratory Manual, Cat Version (12th Edition);
  - 978-0321971357

- Any edition and used books are okay.
- All textbooks and manuals should be purchased online vendors.

Grading:
- Lecture: 50%; Each exam is weighed equally as 20% of total grade.
- Lab: 50% (2 practicals, presentation (group practical), cat dissections and virtual human dissections)
- Grading
  - A = 96% +; A- = 92 - 96; B+ = 88 - 92; B = 84 - 88; B- = 80 - 84; C+ = 76 - 80; C = 72 - 76; C- = 68 - 72; D+ = 64 - 68; D = 60 - 64; F = <60