BMS 2004: Introduction to Physiology Description:
This course follows the comparative approach to Biology with emphasis on how it can be modified for bio-engineering. Topics include basic understanding of how the cell has become a multicellular organism. Discussion of how protista has created all the plants and animals found on earth. Course discusses how each system has formed and how each of the organs has evolved to follow function. This course includes full labs to understanding different examples of organisms that can elucidate each step in evolution and form. Group work and individual lab report that emphasizes scientific reporting and basic research. This course has General Chemistry and BMS 1004 as a pre-requisite but requires co-requisite of Organic Chemistry and fulfills a Pre-Health requirement.

Learning Outcome:
After completing this course, you should be able to:

- Demonstrate the ability to use scientific method to design experiments and research background data.
- Evaluate the validity of scientific information in the media.
- Understand of library research.
- Understand of comparative anatomy and physiology.
- Understand of how evolution has driven forms of life.
- Predict the health consequences of the inability to maintain homeostasis.
- Connect environmental changes to development, growth, and heredity.
- Understand of each system and the evolution of each of the major organs used.
- Understand of biohazards
- Understand of dissections and other laboratory techniques.

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 lates 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 Texts:
If you are a BMS major please purchase the following textbook:
  - Any edition of the textbook is recommended
- **Manual required** for lab is General Zoology Laboratory Guide; Charles Lytle and John Meyer. ISBN: 978-0073369457
  - ANY EDITION ABOVE 9TH EDITION IS ACCEPTABLE
- Used text and manual are also ok.
- This textbook will be used in Both BMS 1004 and 2004
- Due to the increase prices in textbook prices, we recommend buying the textbook from an online vendor and not at the NYU bookstore

If you are NOT a BMS major or ONLY plan to take BMS 2004, please purchase the following textbook:
- E-Books are available for purchase online
  - McGraw Hill Online: https://create.mheducation.com/shop/
- **Required Lecture Textbook**: ISBN: 9781308869070 for $71.45
  - Course Name is: BMS 2004: Introduction to Physiology
- **Required Lab Manual**: ISBN: 9781308889283 for $80.68
  - Course Name is: BMS 2004: Introduction to Physiology Lab

Grading:
- Lecture: 55%; Each exam is weighed equally of total grade.
- Lab: 35%
- Recitation:10%
- 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