This syllabus is provided as a general informational guide. Some of the information may vary depending on the specific course section and instructor. Different sections of the same course may require different textbooks. Verify the section specific textbook information in the CUNY's Academic Course Schedule Web Page. Modifications of the grading system presented here will be communicated by the instructors of the sections when they meet the class.

BOROUGH OF MANHATTAN COMMUNITY COLLEGE
The City University of New York
Department of Science

Anatomy & Physiology II
Bio 426

Lecture hours: 3
Lab hours: 3
Credits: 4

Instructor Information: _____ _____ _____ _____

Name **E-mail/phone** **Office**

Course Description

This is the second semester of a two-semester course that explores the human body as an integrated, functional complex of systems. Terminology, structure and function of each organ system, and the interrelationships between systems are emphasized.

Prerequisites/Co-requisites: BIO 425 & CHE 118 or CHE 121, or departmental approval
NOTE: BIO 426 does not meet the science requirement in the liberal arts curriculum.

Course Student Learning Outcomes	Measurements
1. Students will be able to explain the relationship between anatomical features and functions of each organ system.	**1. Quizzes and examinations.**
2. Students will be able to identify structures associated with each of the organ systems.	**2. Laboratory exercises and practical exams.**
3. Students will be able to discuss concepts related to anatomy and physiology which can be applied to disease states.	**3. Quizzes and examinations.**

	General Education Learning Outcomes	Measurements
X	**Quantitative Reasoning-** Students will be able to use quantitative skills and the concepts and methods of mathematics to solve problems.	**Laboratory exercises and mathematically based test questions.**
X	**Scientific Reasoning-** Students will be able to apply the concepts and methods of the natural sciences.	**Students will assimilate class and laboratory information in order to answer questions related to the health field.**

Required Text & Readings

Anatomy and Physiology: The Unity of Form and Function, ***(8th Edition)***
Saladin, Kenneth S.
McGraw-Hill Publishers, 2017 – choose one of the following:

- Custom Loose-Leaf with *ConnectPlus*: **ISBN #9781307004717**
- Hardcover version with *ConnectPlus*: **ISBN #9781260231373**
- *ConnectPlus* (with e-text only): **through instructor's *Connect* website**

Required Laboratory Manual

Anatomy & Physiology Laboratory Manual for BMCC-Biology 426
Goodwyn, L. and Salm, S.
Morton Publishing Company, 2014
ISBN # 9781617313462

Other Required Materials: *McGraw-Hill **Connect**: on-line course material for Anatomy and Physiology, 8th ed. (packaged with BMCC custom edition or available from the publisher's website).*

Evaluation of Students: The course will be graded on the following: (as determined by the instructor)
Lecture: 70%-80%
Lab: 20%-30%

TO PASS THIS CLASS, A STUDENT MUST HAVE A PASSING GRADE IN LECTURE AND A PASSING GRADE IN THE LABORATORY PORTION OF THE COURSE.

Use of Technology: Blackboard and on-line textbook modules may be required per the instructor.

BMCC is committed to the health and well-being of all students. It is common for everyone to seek assistance at some point in their life, and there are free and confidential services on campus that can help.

Single Stop www.bmcc.cuny.edu/singlestop, room S230, 212-220-8195. If you are having problems with food or housing insecurity, finances, health insurance or anything else that might get in the way of your studies at BMCC, come by the Single Stop Office for advice and assistance. Assistance is also available through the Office of Student Affairs, S350, 212-220- 8130.

Counseling Center www.bmcc.cuny.edu/counseling, room S343, 212-220-8140. Counselors assist students in addressing psychological and adjustment issues (i.e., depression, anxiety, and relationships) and can help with stress, time management and more. Counselors are available for walk-in visits.

Office of Compliance and Diversity www.bmcc cuny.edu/aac, room S701, 212-220-1236. BMCC is committed to promoting a diverse and inclusive learning environment free of unlawful discrimination/harassment, including sexual harassment, where all students are treated fairly. For information about BMCC's policies and resources, or to request additional assistance in this area, please visit or call the office, or email olevy@bmcc.cuny.edu, or twade@bmcc.cuny.edu. If you need immediate assistance, please contact BMCC Public safety at 212-220-8080.

Office of Accessibility www.bmcc.cuny.edu/accessibility, room N360 (accessible entrance: 77 Harrison Street), 212-220-8180. This office collaborates with students who have documented disabilities, to coordinate support services, reasonable accommodations, and programs that enable equal access to education and college life. To request an accommodation due to a documented disability, please visit or call the office.

College Attendance Policy
At BMCC, the maximum number of absences is limited to one more hour than the number of hours a class meets in one week. For example, you may be enrolled in a three-hour class. In that class, you would be allowed 4 hours of absence (not 4 days). In the case of excessive absences, the instructor has the option to lower the grade or assign an F or WU grade.

BMCC Policy on Plagiarism and Academic Integrity Statement
Plagiarism is the presentation of someone else's ideas, words or artistic, scientific, or technical work as one's own creation. Using the idea or work of another is permissible only when the original author is identified. Paraphrasing and summarizing, as well as direct quotations, require citations to the original source. Plagiarism may be intentional or unintentional. Lack of dishonest intent does not necessarily absolve a student of responsibility for plagiarism. Students who are unsure how and when to provide documentation are advised to consult with their instructors. The library has guides designed to help students to appropriately identify a cited work. The full policy can be found on BMCC's Web site, www.bmcc.cuny.edu. For further information on integrity and behavior, please consult the college bulletin (also available online).

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LECTURE

WEEKS	TOPICS	PAGES
1	Blood	672-707
2	Blood/ Heart	672-707; 708-742
3	Heart	708-742
4	Circulation: Blood Vessels	743-801
5	Circulation: Blood Pressure	743-801
6	Lymphatics/ Immune System	802-847
7	Respiratory System	848-888
8	Respiratory/ Urinary System	848-888, 889-923
9	Urinary System	889-923
10	Water, Electrolyte and Acid-Base Balance	924-946
11	Digestive System	947-993
12	Nutrition and Metabolism	994-1027
13	Reproductive System	1028-1095
14	Development, Growth and Aging	1096-1129
15	Review and Final Examination	

LABORATORY

WEEKS	TOPICS	PAGES
1	Blood and Blood Cells	1-10
2	Using the Hemocytometer	11-18
3	The Heart/mammal heart dissection**	19-26
4	Blood Vessels	27-37
5	Cardiovascular Physiology	39-45
6	Immune System	47-56
7	Respiratory Anatomy	57-65
8	Respiratory Physiology	67-78
9	Urinary System/mammal kidney dissection**	79-87
10	Digestive System	89-97
11	Fetal Pig Dissection**	99-107
12	Female Reproduction	109-116
13	Male Reproductive	119-124
14	Fertilization and Early Development	127-135
15	Cumulative Practical***	

**All dissections are to be done

***Practical examinations are at the discretion of the instructor.

LABORATORY PROCEDURES

1. No food or drinks of any kind are permitted in the laboratory.
2. All dissection "cuttings and rinsings" must be discarded in appropriate garbage cans.
3. ****No such materials may be left in sinks or sink drains! ****
4. All dissecting tools must be washed and returned to their proper trays.
5. Prepared **slides** must be removed from microscopes, cleaned and **returned to their proper trays.**
6. Microscopes must have their cords properly wound and tied, and scopes should be **on their correct shelves** with their **numbers facing outwards.**
7. Models must be left with **all parts attached properly** for incoming classes.
8. All tables, sinks, counters and floors should be left spotless.
9. Adhere to all dress code and other instructions outlined in the Laboratory Safety and Protocol document.