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| Philadelphia University |  PHILADELPHIA UNIVERSITY <small>THE WAY TO THE FUTURE</small> | Approved Date: |
| Faculty: | | Issue:1 |
| Department: | | Credit Hours:3 |
| Academic Year:2022\2023 | | Course Syllabus |

Course Information

| Course No. | Course Title | Prerequisite | |
|---|---------------------------------|------------------------|----------|
| 0520112200 | Anatomy and physiology 1 | Biology 1 (0240106) | |
| Course Type | | Class Time | Room No. |
| <input type="checkbox"/> University Requirement <input type="checkbox"/> Faculty Requirement <input type="checkbox"/> Major Requirement <input type="checkbox"/> Elective <input checked="" type="checkbox"/> Compulsory | | | |

Instructure Information

| Name | Office No. | Phone No. | Office Hours | E-mail |
|------|------------|-----------|--------------|--------|
| | | | | |

Course Delivery Method

| <input type="checkbox"/> Blended <input type="checkbox"/> Online <input checked="" type="checkbox"/> Physical | | | |
|---|-------------|--------------|-------------|
| Learning Model | | | |
| Percentage | Synchronous | Asynchronous | Physical |
| | | | 100% |

Course Description

This Module is designed to provide the students with knowledge about the normal anatomy and normal functions and mechanism of various physiological systems basis on the anatomical and histological correlation normal functions and mechanism of various physiological systems . This module deals with study of tissue level of organization ,surface anatomy, axial and appendicular skeleton,axial and appendicular muscle,blood, nervous system (neurons and synaps), autonomic nervous system ,Digestive system, renal system, acid & base balance and electrolytes balance & imbalance ,finally, reproductive system .

Course Learning Outcomes

| | | Program Outcomes | Competencies |
|------------------|---|------------------|--------------|
| Knowledge | | | |
| K1 | Develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and physiology. | Kp1 | C1 |
| K2 | Recognize the anatomical structures and explain the physiological functions of body systems. : | Kp1 | C1 |
| K3 | Develop Information about the functional principles of physiology ; and apply knowledge for mechanisms of action of the body systems | Kp1 | C1 |
| K4 | Use anatomical knowledge to predict physiological consequences, and use knowledge of function to predict the features of anatomical structures. | Kp1 | C1 |
| K5 | Recognize and explain the interrelationships within and between anatomical and physiological systems of the human body. | Kp1 | C1 |
| Skills | | | |
| S1 | Possess self-learning skills, problem solving & critical thinking abilities. | Sp2 | C8 |
| S2 | Interpret, analyze & evaluate information in the literature. | Sp2, Sp3, Sp6 | C8,C9,C12 |
| S3 | Compare the normal physiological mechanisms with abnormal ones | Sp3 | C9 |

Learning Resources

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|------------------------------|---|
| Course Textbook | - Principles of Anatomy and Physiology, 15th Edition by Gerard J. Tortora, Bryan H. Derrickson, Publisher: Wiley, (2017), ISBN: 978-1-119-39993-3 |
| Supporting References | <p>1. Human Anatomy 6TH edition By Michael McKinley and Valerie O'Loughlin and Ronald Harris and Elizabeth Pennefather-O'Brien Publisher : McGraw Hill; (2020) ISBN-10 : 1260251357.ISBN-13 : ISBN: 978-1260251357</p> <p>2. Atlas of human anatomy 6TH edition By Frank H. Netter, publisher: Elsevier, (2014), 978-0-8089-2451-7</p> <p>3. Ross and Wilson Anatomy and Physiology in Health and Illness, 10e 10th Edition by Anne Waugh BSc(Hons) MSc CertEd SRN RNT FHEA (Author), Allison Grant BSc PhD RGN (Author) ISBN-13: 978-0443101014 ;ISBN-10: 0443101019</p> <p>4. Human Anatomy , 8th Edition By Marieb, Elaine, Wilhelm, Patricia Brady, & Mallatt, Jon, Harlow: Pearson Education Limited(2017), ISBN: 978-1-292-15679-8 .</p> <p>5. <i>Human anatomy and physiology</i> BY Aerman, Erin C.. . Harlow: Pearson Education Limited,(2016), ISBN: 978-1-292-11233-6 .</p> |
| Supporting Websites | www.scinedirect.com , www.youtube.com |
| Teaching Environment | <input checked="" type="checkbox"/> Classroom <input type="checkbox"/> laboratory <input type="checkbox"/> Learning Platform <input type="checkbox"/> Other |

Meetings and Subjects Time Table

| Week | Topic | Learning Method* | Task | Learning Material |
|------|-------|------------------|------|-------------------|
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|---|---|---|------------------------|---|
| 1 | Vision and Mission of Faculty of Pharmacy Course Syllabus An Introduction to Human body | Lecture | | Vision and Mission of Faculty of Pharmacy Course Syllabus Text book |
| 2 | Tissue level of organization , Tissues (epithelial, connective, muscular and Nervous). | Lecture , Collaboration learning | | Text book |
| 3 | Surface anatomy thorax, abdomen, lower & upper | Lecture , Collaboration learning | Quiz 1 | Text book |
| 4 | Axial skeleton | Lecture , Collaboration learning | | Text book |
| 5 | Appendicular skeleton | Lecture , Problem solving based learning | Quiz 2 | Text book |
| 6 | Axial Muscles | Lecture , Collaboration learning | | Text book |
| 7 | Appendicular Muscles | | Video taped assignment | |
| 8 | Blood | Lecture , Collaboration learning | | Text book |
| 9 | The nervous system (neurons and synaps) | Lecture , Problem | | Text book |

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|----|------------------------------------|---|--------------------|-----------|
| | | solving based learning | | |
| 10 | The autonomic nervous system | Lecture , Problem solving based learning | Short report | Text book |
| 11 | Anatomy of the digestive system | Lecture , Problem solving based learning | | Text book |
| 12 | Physiology of the digestive system | Lecture , project based learning | Short presentation | Text book |
| 13 | Anatomy of the renal system | Lecture | | Text book |
| 14 | Physiology of the renal system | Collaboration learning | | Text book |
| 15 | Reproductive system | Lecture , Problem solving based learning | | Text book |
| 16 | Final Exam | | | |

Course Contributing to Learner Skill Development

| Using Technology |
|---|
| -Use powerpoint or any other relevant programs for preparing presentations -Use variety of Electronic databases in searching for published data. |
| Communication Skills |
| -Report writing -Oral presentation of selected topics |
| Application of Concept Learnt |
| - Students will apply most of the acquired knowledge from the theoretical lectures in the physiology - The theoretical information also allows them to be able to perform a research & experimental work |

Assessment Methods and Grade Distribution

| Assessment Methods | Grade | Assessment Time (Week No.) | Course Outcomes to be Assessed |
|--------------------|-------------|----------------------------|--------------------------------|
| Mid Term Exam | % 30 | 11 | K1-k3,S1,S2 |
| Term Works* | % 30 | Continuous | S1, S2 |
| Final Exam | % 40 | 16 | K1-k5,S1-S3 |
| Total | %100 | | |

* Include: quizzes, in-class and out of class assignment, presentations, reports, Videotaped assignment, group or individual project

Alignment of Course Outcomes with Learning and Assessment Methods

| Number | Learning Outcomes | Corresponding competencies | Learning Method* | Assessment Method** |
|------------------|---|----------------------------|---|--|
| Knowledge | | | | |
| K1 | Develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and physiology. | C1 | Lecture | Subjective Quiz Exam/subjective Questions |
| K2 | Recognize the anatomical structures and explain the physiological functions of body systems. | C1 | Lecture , Collaborative learning Problem solving based learning | Subjective Quiz Exam/subjective Questions |
| K3 | Develop Information about the functional principles of physiology ; and apply knowledge for mechanisms of action of the body systems. | C1 | Lecture Collaborative learning Problem solving | Subjective Quiz Exam/subjective Questions |

| | | | | |
|---------------|---|-----------|---|--|
| | | | based learning | |
| K4 | Use anatomical knowledge to predict physiological consequences, and use knowledge of function to predict the features of anatomical structures. | C1 | Lecture Collaborative learning Problem solving based learning | Subjective Quiz Exam/subjective Questions Short report |
| K5 | Recognize and explain the interrelationships within and between anatomical and physiological systems of the human body. | C1 | Lecture Collaborative learning Problem solving based learning | Subjective Quiz Exam/subjective Questions Video taped assignment |
| Skills | | | | |
| S1 | Possess self-learning skills, problem solving & critical thinking abilities. | C8 | Problem solving based learning | Subjective Quiz Exam/subjective Questions |
| S2 | Interpret, analyze & evaluate information in the literature | C8,C9,C12 | Project based learning | Oral presentation evaluation |
| S3 | Compare the normal physiological mechanisms with abnormal ones | C9 | Collaborative learning | Exam/subjective Questions |

*Include: lecture, flipped class, project based learning, problem solving based learning, collaboration learning.

** Include: quizzes, in-class and out of class assignments, presentations, reports, videotaped assignments, group or individual projects.

Course Polices

| Policy | Policy Requirements |
|---------------------------|---|
| Passing Grade | The minimum pass for the course is (50%) and the minimum final mark is (35%). |
| Missing Exams | <ul style="list-style-type: none"> • Anyone absent from a declared semester exam without a sick or compulsive excuse accepted by the dean of the college that proposes the course, a zero mark shall be placed on that exam and calculated in his final mark. • Anyone absent from a declared semester exam with a sick or compulsive excuse accepted by the dean of the college that proposes the course must submit proof of his excuse within a week from the date of the excuse's disappearance, and in this case, the subject teacher must hold a compensation exam for the student. • Anyone absent from a final exam with a sick excuse or a compulsive excuse accepted by the dean of the college that proposes the material must submit proof of his excuse within three days from the date of holding that exam. |
| Attendance | The student is not allowed to be absent more than (15%) of the total hours prescribed for the course, which equates to six lecture days (n t) and seven lectures (days). If the student misses more than (15%) of the total hours prescribed for the course without a satisfactory or compulsive excuse accepted by the dean of the faculty, he is prohibited from taking the final exam and his result in that subject is considered (zero), but if the absence is due to illness or a compulsive excuse accepted by the dean of the college that The article is introduced, it is considered withdrawn from that article, and the provisions of withdrawal shall apply to it. |
| Academic Integrity | Philadelphia University pays special attention to the issue of academic integrity, and the penalties stipulated in the university's instructions are applied to those who are proven to have committed an act that violates academic integrity, such as cheating, plagiarism (academic theft), collusion, intellectual property rights. |

| Number | Learning Outcome | Course Title | Assessment Method | Target Performance level |
|------------|--|--------------------------|--------------------|---|
| Sp6 | Effectively communicate verbally and nonverbally when interacting with an individual group or organization | Anatomy and physiology 1 | Oral presentations | 75% of students have a minimum score 7 Out of 10 |

Description of Program Learning Outcome Assessment Method

| Number | Detailed Description of Assessment |
|--------|--|
| Sp6 | Oral presentation, each 5 students prepare special subject related to the course |

Rubric of the Oral presentation

| Rating category | Scale of score | | | | |
|--|--|--|--|--|--|
| | 1 | 2 | 3 | 4 | |
| Ability to focus on topic and satisfactory explanation | Presenter is not able to focus on topic nor provide satisfactory explanation | Presenter has poor ability to focus on topic and provide satisfactory explanation | Presenter has intermediate ability to focus on topic and provide satisfactory explanation | Presenter has full ability to focus on topic and provide satisfactory explanation | |
| Content Quality | Bad content quality | Poor content quality | Intermediate content quality | High content quality | |
| Content Display and organization | Improper use of images and graphics and proper typography for the whole presentation | proper use of images and graphics and proper typography for some parts of the presentation | proper use of images and graphics and proper typography for most parts of the presentation | proper use of images and graphics and proper typography for the whole presentation | |
| Citation | Citation is not performed | Citation is performed For some information | Citation is performed for most of the information | Citation is performed for all of the information | |
| Communication skills | Presenter has poor ability to speak clearly and interact with audience | Presenter is sometime able to speak clearly and interact with audience | Presenter is mostly able to speak clearly and interact with audience | Presenter is always able to speak clearly and interact with audience | |
| Timeliness | 25%of the | 50%of the | 75%of the | 100%of the | |

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|--|--|--|--|--|--|
| | presentation efficiently ended within the allowed time frame | |
|--|--|--|--|--|--|