Physiology (PHYL)

Physiology (PHYL) Classes

PHYL 141 : Human Anatomy and Physiology I

Credits: 3
Class Hours: 3 lecture
Prerequisites: "C" or higher in ENG 100. "C" or higher in both CHEM 151 and CHEM 151L or CHEM 161 and CHEM 161L.
Corequisite Courses:
PHYL 141L
Comments: Computer/internet access required.
Description: This course is a comprehensive introduction to the structure and function of the human body for students entering health or medically-related fields. This basic course includes a study of the body's embryology, gross anatomy, microanatomy, physiology, homeostatic relationships, and the use of anatomy and physiology terms and concepts to develop thinking, reading and writing skills, and problem-solving abilities. The integumentary, skeletal, muscular, and nervous systems are studied.
Semester Offered: Fall, Spring
Designation:
Diversification: Biological Sciences — DB
Course Student Learning Outcomes (CSLOs):

1. Discuss the homeostatic relationships, both negative and positive feedback processes associated with the covered systems.
2. Discuss the maturation and aging processes involving the covered systems.
3. Demonstrate critical thinking by applying A and P terms, concepts, knowledge, and synthesizing information in various situations.
4. Identify the required anatomical structures and use the correct terminology to describe and discuss them.
5. Explain/discuss the gross and cellular physiology of the systems covered.
6. Describe the cause and effect relationship between the systems covered.
7. Describe the functional relationship between the listed systems.

PHYL 141L : Human Anatomy and Physiology I Lab

Credits: 1
Class Hours: 3 lab
Prerequisites: "C" or higher in ENG 100. "C" or higher in both CHEM 151 and CHEM 151L or CHEM 161 and CHEM 161L.
Corequisite Courses:
PHYL 141
Comments: Computer/internet access required.
Description: This course is intended to complement the material presented in the PHYL 141 lectures by giving hands-on experience with anatomical models, organ and whole-animal dissections, physiological and biochemical experiments, and microscopic slides dealing with the following systems: integumentary, skeletal, muscular, and nervous.
Semester Offered: Fall, Spring
Designation:
Diversification: Lab (Science) — DY
Course Student Learning Outcomes (CSLOs):

1. Follow CD instructions to perform experiments, collect data, and interpret the data.
2. Follow instructions to perform experiments, collect data and analyze data.
3. Work effectively individually and in groups to problem solve.
4. Identify tissue types and/or structures from prepared slides and demonstrate proper use of the microscope.
5. Explain/discuss the physiology of the data collected in the experiments.
6. Describe and identify the planes, cavities, and gross anatomy of the human body using the correct terminology.

7. Identify specific anatomical parts of the systems covered using the correct terminology.

PHYL 142 : Human Anatomy and Physiology II

Credits: 3
Class Hours: 3 lecture
Prerequisites: "C" or higher in PHYL 141 and PHYL 141L.
Corequisite Courses:
PHYL 142L
Comments: Computer/internet access required.
Description: This course is the second half of a comprehensive introduction to the structure and function of the human body (endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems), and use of anatomy and physiology terminology and concepts. This course will also develop thinking, reading and writing skills, and problem-solving abilities for students entering health or medically-related fields.
Semester Offered: Fall, Spring
Designation:
Diversification: Biological Sciences — DB
Course Student Learning Outcomes (CSLOs):
1. Describe the functional relationship between the systems covered.
2. Discuss homeostatic relationships, both negative and positive feedback processes associated with the systems covered.
3. Identify the required anatomical structures and use the correct terminology to describe and discuss them.
4. Discuss the maturation and aging processes involving systems covered.
5. Demonstrate critical thinking by applying A & P terms, concepts, knowledge and synthesizing information in various situations.
6. Explain/discuss the gross and cellular physiology of the systems covered.

PHYL 142L : Human Anatomy and Physiology II Lab

Credits: 1
Class Hours: 3 lab
Prerequisites: "C" or higher in PHYL 141 and PHYL 141L.
Corequisite Courses:
PHYL 142
Comments: Computer/internet access required.
Description: This course is intended to complement the material presented in the PHYL 142 lectures by giving hands-on experience with anatomical models, organ and whole-animal dissections, physiological and biochemical experiments, and microscopic slides dealing with the following systems: endocrine, cardiovascular, respiratory, digestive, urinary, and reproductive.
Semester Offered: Fall, Spring
Designation:
Diversification: Lab (Science) — DY
Course Student Learning Outcomes (CSLOs):
1. Identify specific anatomical parts of the systems covered.
2. Work effectively individually and in groups to problem solve.
3. Follow instructions to perform experiments collecting and analyzing data.
4. Follow CD instructions to perform experiments, collect data, and interpret data.
5. Identify histology and pathology from prepared slides of the systems covered.
6. Discuss/explain the physiology of the data collected in the experiments.