PHYSIOLOGIE (PHS)

PHS 11007 Physiology I (3 units)
Course Component: Lecture

PHS 1107 Physiology I (3 units)
Course Component: Lecture

PHS 1200 Physiology (6 units)
Course Component: Lecture

PHS 2281 Physiology
Course Component: Lecture

PHS 3341 Physiology of Sensation, Regulation, Movement and Reproduction (3 units)
Part 1 of a comprehensive study of human physiology with an emphasis on regulatory mechanisms. This course includes the biophysical basis of excitable tissues and the physiology of the nervous, muscular, endocrine and reproductive systems. It is assumed that students have a basic knowledge of chemistry, physics and biology.
Course Component: Lecture

PHS 3342 Physiological Regulation of Intake, Distribution, Protection and Elimination (3 units)
Part 2 of a comprehensive study of human physiology with an emphasis on regulatory mechanisms. This course includes the physiology of the cardiovascular, immune, respiratory, renal and digestive systems. It is assumed that students have a basic knowledge of chemistry, physics and biology.
Course Component: Lecture

PHS 3347 Human Physiology (6 units)
Course Component: Lecture

PHS 3348 Pathophysiology (6 units)
Course Component: Lecture

PHS 3349 Reproductive Physiology (3 units)
Course Component: Lecture

PHS 3350 Renal Physiology (3 units)
Course Component: Lecture

PHS 3351 Gastrointestinal Physiology (3 units)
Course Component: Lecture

PHS 3352 Cardiovascular Physiology (3 units)
Course Component: Lecture

PHS 3353 Endocrine Physiology (3 units)
Course Component: Lecture

PHS 3354 Physiological Psychology (3 units)
Course Component: Lecture

PHS 3355 Renal Physiology (3 units)
Course Component: Lecture

PHS 3356 Gastrointestinal Physiology (3 units)
Course Component: Lecture

PHS 3357 Cardiovascular Physiology (3 units)
Course Component: Lecture

PHS 3358 Endocrine Physiology (3 units)
Course Component: Lecture

PHS 3359 Physiological Psychology (3 units)
Course Component: Lecture

PHS 3360 Physiology of Sensation, Regulation, Movement and Reproduction (3 units)
Part 1 of a comprehensive study of human physiology with an emphasis on regulatory mechanisms. This course includes the biophysical basis of excitable tissues and the physiology of the nervous, muscular, endocrine and reproductive systems. It is assumed that students have a basic knowledge of chemistry, physics and biology.
Course Component: Lecture

PHS 3361 Physiological Regulation of Intake, Distribution, Protection and Elimination (3 units)
Part 2 of a comprehensive study of human physiology with an emphasis on regulatory mechanisms. This course includes the physiology of the cardiovascular, immune, respiratory, renal and digestive systems. It is assumed that students have a basic knowledge of chemistry, physics and biology.
Course Component: Lecture

PHS 3362 Reproductive Physiology (3 units)
Course Component: Lecture

PHS 3363 Renal Physiology (3 units)
Course Component: Lecture

PHS 3364 Gastrointestinal Physiology (3 units)
Course Component: Lecture

PHS 3365 Cardiovascular Physiology (3 units)
Course Component: Lecture

PHS 3366 Endocrine Physiology (3 units)
Course Component: Lecture

PHS 3367 Physiological Psychology (3 units)
Course Component: Lecture

PHS 3368 Physiology of Sensation, Regulation, Movement and Reproduction (3 units)
Part 1 of a comprehensive study of human physiology with an emphasis on regulatory mechanisms. This course includes the biophysical basis of excitable tissues and the physiology of the nervous, muscular, endocrine and reproductive systems. It is assumed that students have a basic knowledge of chemistry, physics and biology.
Course Component: Lecture

PHS 3369 Physiological Regulation of Intake, Distribution, Protection and Elimination (3 units)
Part 2 of a comprehensive study of human physiology with an emphasis on regulatory mechanisms. This course includes the physiology of the cardiovascular, immune, respiratory, renal and digestive systems. It is assumed that students have a basic knowledge of chemistry, physics and biology.
Course Component: Lecture

PHS 3370 Reproductive Physiology (3 units)
Course Component: Lecture

PHS 3371 Renal Physiology (3 units)
Course Component: Lecture

PHS 3372 Gastrointestinal Physiology (3 units)
Course Component: Lecture

PHS 3373 Cardiovascular Physiology (3 units)
Course Component: Lecture

PHS 3374 Endocrine Physiology (3 units)
Course Component: Lecture

PHS 3375 Physiological Psychology (3 units)
Course Component: Lecture

PHS 3376 Physiology of Sensation, Regulation, Movement and Reproduction (3 units)
Part 1 of a comprehensive study of human physiology with an emphasis on regulatory mechanisms. This course includes the biophysical basis of excitable tissues and the physiology of the nervous, muscular, endocrine and reproductive systems. It is assumed that students have a basic knowledge of chemistry, physics and biology.
Course Component: Lecture

PHS 3377 Physiological Regulation of Intake, Distribution, Protection and Elimination (3 units)
Part 2 of a comprehensive study of human physiology with an emphasis on regulatory mechanisms. This course includes the physiology of the cardiovascular, immune, respiratory, renal and digestive systems. It is assumed that students have a basic knowledge of chemistry, physics and biology.
Course Component: Lecture

PHS 3378 Reproductive Physiology (3 units)
Course Component: Lecture

PHS 3379 Renal Physiology (3 units)
Course Component: Lecture

PHS 3380 Gastrointestinal Physiology (3 units)
Course Component: Lecture

PHS 3381 Cardiovascular Physiology (3 units)
Course Component: Lecture

PHS 3382 Endocrine Physiology (3 units)
Course Component: Lecture

PHS 3383 Physiological Psychology (3 units)
Course Component: Lecture

PHS 3384 Physiology of Sensation, Regulation, Movement and Reproduction (3 units)
Part 1 of a comprehensive study of human physiology with an emphasis on regulatory mechanisms. This course includes the biophysical basis of excitable tissues and the physiology of the nervous, muscular, endocrine and reproductive systems. It is assumed that students have a basic knowledge of chemistry, physics and biology.
Course Component: Lecture

PHS 3385 Physiological Regulation of Intake, Distribution, Protection and Elimination (3 units)
Part 2 of a comprehensive study of human physiology with an emphasis on regulatory mechanisms. This course includes the physiology of the cardiovascular, immune, respiratory, renal and digestive systems. It is assumed that students have a basic knowledge of chemistry, physics and biology.
Course Component: Lecture

PHS 3386 Reproductive Physiology (3 units)
Course Component: Lecture

PHS 3387 Renal Physiology (3 units)
Course Component: Lecture

PHS 3388 Gastrointestinal Physiology (3 units)
Course Component: Lecture

PHS 3389 Cardiovascular Physiology (3 units)
Course Component: Lecture

PHS 3390 Endocrine Physiology (3 units)
Course Component: Lecture

PHS 3391 Physiological Psychology (3 units)
Course Component: Lecture

PHS 4100 Human Physiology and Mechanism of Disease (6 units)
Lectures and discussions of selected topics in pathophysiology. Students will need to have acquired an understanding of normal physiology and the concepts involved therein. Attention will be paid to review of the principles involved in normal physiology. This course will then focus upon the etiology of the diseased state and underscore the causes and mechanisms of deranged physiology, preventative measures and corrective therapy. The topics covered will include the cardiovascular system, the gastro-intestinal tract, the respiratory and renal systems, neuromuscular and central nervous function, the endocrine and reproductive systems.
Course Component: Lecture

PHS 4219 Research Project (10 units)
The student will undertake a research project under the supervision of one of the professors within the Department.
Course Component: Research
Permissions of the Department is required.

PHS 4219 Research Project (Part 1 of 2)
The student will undertake a research project under the supervision of one of the professors within the Department. (Part 1 of 2)
Course Component: Research
Permissions of the Department is required.

PHS 4219 Research Project (Part 2 of 2) (10 units)
The student will undertake a research project under the supervision of one of the professors within the Department. (Part 2 of 2)
Course Component: Research
Prerequisite: PHS 42191. Permission of the Department is required.

PHS 4300 Pathophysiology (3 units)
Etiology of disease states, causes and mechanisms of pathology, preventive measures and corrective therapies.
Course Component: Lecture
Prerequisites: ANP 1105, ANP 1106, ANP 1107.

PHS 4320 Special Topics in Cardiovascular and Renal Physiology (3 units)
Series of lectures and demonstrations covering cardiovascular physiology, with an emphasis on quantitative approaches.
Course Component: Lecture

PHS 4326 Seminars in Physiology (3 units)
Course Component: Lecture

PHS 43261 Seminars in Physiology (Part 1 of 2)
Course Component: Seminar

PHS 43262 Seminars in Physiology (Part 2 of 2) (3 units)
Course Component: Seminar
Prerequisite: PHS 43261

PHS 4335 Special Topics in Endocrine Physiology (3 units)
Selected topics in endocrinology and the control of metabolic homeostasis in the whole animal including elements of the biological application of systems analysis.
Course Component: Lecture

PHS 4336 Reproductive Physiology (3 units)
Lecture and seminar course with emphasis on human reproduction. The course will cover various aspects of reproduction including gonadal development, ovulation, fertilization, implantation, pregnancy and parturition. The physiological basis of reproductive disorders and reproductive technology will also be covered.
Course Component: Lecture
Recommended prerequisites: ANP1107, ANP1507 or PHS3341.

PHS 4340 Electrophysiology of Excitable Tissues (3 units)
A lecture and demonstration course. Origin and methods of measuring bioelectric potentials will be considered, including voltage clamp methods for measuring current-voltage relationships across cell membranes, an introduction to cable theory, Hodgkin-Huxley equations and the action potential as a travelling wave. Control of ionic channels through biological membranes and the role of active transport across membranes as regulators of the intracellular environment will be considered.
Course Component: Lecture

PHS 4345 Gastrointestinal Physiology (3 units)
Course Component: Lecture

PHS 4355 Renal Physiology (3 units)
Course Component: Lecture

PHS 4700 Pathophysiologie (3 crédits)
Étiologie des maladies, causes et mécanismes des pathologies, mesures préventives et thérapies correctives.
Volet : Cours magistral
Préalables : ANP 1505, ANP 1506, ANP 1507.