PHYSIOLOGY (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 3341 Physiological Regulation of Intake, Distribution, Protection and Elimination (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 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

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

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

PHS 4226 Seminars in Physiology (3 units)
This course is primarily intended for students enrolled in the 4th year Honour’s program. Students are required to give two oral seminars (20 minute talk followed by 10 minutes of questions) and one poster-type presentation. The course is intended to introduce students to the art of preparing the different types of presentations encountered at scientific conferences and to defend their findings.
Course Component: Seminar

PHS 4226 Seminars in Physiology (Part 1 of 2)
This course is primarily intended for students enrolled in the 4th year Honour’s program. Students are required to give two oral seminars (20 minute talk followed by 10 minutes of questions) and one poster-type presentation. The course is intended to introduce students to the art of preparing the different types of presentations encountered at scientific conferences and to defend their findings. (Part 1 of 2)
Course Component: Seminar

Prerequisite: PHS 43261

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 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 43262 Seminars in Physiology (Part 2 of 2) (3 units)
This course is primarily intended for students enrolled in the 4th year Honour’s program. Students are required to give two oral seminars (20 minute talk followed by 10 minutes of questions) and one poster-type presentation. The course is intended to introduce students to the art of preparing the different types of presentations encountered at scientific conferences and to defend their findings. (Part 2 of 2)
Course Component: Seminar

PHS 4326 Seminars in Physiology (3 units)
This course is primarily intended for students enrolled in the 4th year Honour’s program. Students are required to give two oral seminars (20 minute talk followed by 10 minutes of questions) and one poster-type presentation. The course is intended to introduce students to the art of preparing the different types of presentations encountered at scientific conferences and to defend their findings.
Course Component: Seminar

Prerequisite: PHS 43261

PHS 4326 Seminars in Physiology (3 units)
This course is primarily intended for students enrolled in the 4th year Honour’s program. Students are required to give two oral seminars (20 minute talk followed by 10 minutes of questions) and one poster-type presentation. The course is intended to introduce students to the art of preparing the different types of presentations encountered at scientific conferences and to defend their findings.
Course Component: Seminar

Prerequisite: PHS 43261

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 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 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

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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

Recommended prerequisites: ANP1107, ANP1507 or PHS3341.
PHS 4345 Gastrointestinal Physiology (3 units)
Course Component: Lecture

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

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