REPRODUCTION AND DEVELOPMENT (REPD)

REPD 372  Reproduction and Development  Units: 3.00
Students will obtain a general background on various aspects of human reproduction, ranging from male and female gamete development to pregnancy and birth. The course will serve as a gateway to more advanced courses in human reproduction and development.
NOTE Also offered online. Consult the Bachelor of Health Sciences program.
Learning Hours: 120 (60 Online Activity, 60 Private Study)
Requirements: Minimum 3rd year (Level 3) standing, one of (ANAT 100/3.0; ANAT 101/3.0; [ANAT 215/3.0 and ANAT 216/3.0]; [ANAT 315/3.0 and ANAT 316/3.0]) and one of (PHGY 210/6.0; PHGY 214/6.0; [KNPE 125/2.0 and KNPE 225/3.0]; [PHGY 215/3.0 and PHGY 216/3.0]).
Offering Faculty: Faculty of Health Sciences

REPD 416  Biology of Reproduction  Units: 3.00
Comprehensive overview of cellular and molecular biology of mammalian reproduction including gametogenesis, fertilization, early embryo development and placentation; selected topics of clinical aspects of reproduction. Participation in seminars and group discussion is required.
Learning Hours: 120 (36 Lecture, 36 Seminar, 48 Private Study)
Requirements: PREREQUISITE Level 4 and (registration in a LISC Major or Specialization plan) and (a GPA of 2.7) and either [(ANAT 215 and ANAT 216) or ANAT 309].
Offering Faculty: Faculty of Health Sciences

REPD 473  Developmental Origins of Health And Disease  Units: 3.00
REPD 473, Development Origins of Health and Disease, will cover how the early-life environment contributes to later-life health. Four major topics will be covered: maternal exposures, maternal nutrition, infection, and pregnancy complications. Students will learn about how alterations in the embryonic and fetal environment due to these four parameters can and do contribute to the development of non-communicable diseases that persist throughout life. Students will have the opportunity to explore and consolidate the academic literature pertaining to DOHaD, as well as investigating the resources available to these populations of patients.
Requirements: Minimum 4th year (Level 4) standing and one of (PHAR 230/3.0; PHAR 370/3.0; PHAR 340/3.0; PHAR 380/3.0) and REPD 372/3.0.
Offering Faculty: Faculty of Health Sciences

REPD 499  Research Project in Reproduction and Development  Units: 12.00
An examination of the development and present state of knowledge in selected research areas of Reproduction and Development. Research project involves experimental design, data collection and analysis, written report, poster presentation and oral presentation. Students will be required to attend seminars and tutorials on topics related to research.
NOTE Limited enrolment; restricted to 4th year honours; permission of the Department required. Acceptance by a supervisor required prior to registration.
NOTE Students whose research requires the care and/or handling of animals must also complete the Introductory Animal Care Course and if required the appropriate Animal Use workshops through the Office of the University Veterinarian.
Learning Hours: 480 (24 Lecture, 48 Seminar, 192 Laboratory, 168 Private Study)
Requirements: Prerequisite Level 4 and registration in a LISC Specialization Plan and a cumulative GPA of 2.50 or higher. Exclusion ANAT 499; CANC 499; EPID 499; MICR 499; NSCI 499; PATH 499; PHAR 499; PHGY 499.
Offering Faculty: Faculty of Health Sciences