

Teaching Specialization

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I have a quite diverse scientific background, which helps me to be able to have an understanding in a broader area. I have a B.Sc. in Obstetrics and Gynecology, a M.Sc. from the Animal Sciences department of The University of British Columbia in reproductive endocrinology, and a Ph.D. from the Physiology department of The University of Toronto in Cancer Research.

The list of courses I am best qualified to teach:

I specialize in teaching **Physiology** including:

- Physiology overview
- Basic and advanced human physiology
- Topics in cellular, molecular, and organismic physiology
- Advanced topics in **physiology** including:
 - Reproductive and endocrine physiology (development and function)
 - Cardiovascular development
 - Metabolic disorders
 - Molecular physiology
 - Endocrine and neuroendocrine physiology
 - Respiratory physiology
 - Vision physiology
 - Pregnancy and birth physiology
 - Mammalian molecular biology
 - Membrane physiology

A subspecialty of mine is **obstetrics and gynecology** including:

- Principles and techniques of nursing and obstetrics
- Legal medicine
- Pregnancy and delivery
- Premature infant care
- Nutrition and mother and child diet
- Internal diseases and surgery in pregnancy
- Obstetrics and gynecology and relevant care
- Family planning
- Infant disease

A companion subspecialty of mine is **Biology** including:

- Cell and molecular biology
- Microbiology
- Virology
- Genetics
- Bioinformatics
- Basic and advanced human biology
- Biochemistry
- Histology
- Animal physiology

The list of courses I am able to teach:

- **Health Sciences**
- **Medical Biophysics** including:
 - Oncology
- **Metabolism and nutrition**
- **Molecular genetics and molecular biology** including:
 - Regulation of gene expression
 - Signal transduction and cell cycle control
- **Biochemistry** including:
 - Basic and advanced biochemistry
 - Protein structure and function to proteomics
 - Bioinformatics
 - Nucleic acids and recombinant DNA technology
 - Organelles and cell function
- **Bioinformatics** including:
 - Microarray technology
 - Real-time PCR technology
 - High throughput protein assays

The list of the courses in interdisciplinary areas that I can teach:

- **Nursing** including:
 - Pathology
 - Research design
 - Nursing and health care system
 - Primary and advanced health care
 - Acute care nursing
 - Health administration and clinical research for children and adults
- **Anatomy** including:
 - Basic and advanced human anatomy
 - Specific topics in anatomy
 - Histology