



# **University of Alberta Aging-Related Courses**

**2008-2009**



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## INTRODUCTION

This listing has been compiled by the Alberta Centre on Aging to assist individuals in the identification of aging-related courses at the University of Alberta. Undergraduate and graduate-level courses are listed by Faculty.

Information provided on each course includes:

- the course number and title;
- the credit hours (indicated by \* followed by the number of hours);
- the 2008/09 scheduling;
- a brief description; and,
- restrictions such as prerequisites or enrollment in a specific program.

The extent of aging-related content in each course varies. The department should be contacted regarding specific course content and for information on other courses in which students can focus on aging issues in their assignments. As scheduling changes occur, students are advised to consult the most recent course information, available on-line at: <https://www.beartracks.ualberta.ca>

## AGRICULTURE, LIFE AND ENVIRONMENTAL SCIENCES

### Agricultural, Food and Nutritional Science

#### **NU FS 356 Nutrition Across the Lifespan \*3**

***Offered Winter 2009***

A lecture course that examines the understanding of how nutrients act on a cellular, tissue, and whole organism level to influence human growth, development and aging. *Students cannot obtain credit in both NU FS 356 and 456. Prerequisite: \*3 of NUTR 301, 303 or NU FS 305.*

### Human Ecology

#### **HECOL 212 Later Life Families \*3**

***Not offered 2008/2009***

An exploration of the interpersonal, personal, and physical needs of the aging family throughout the later stages of the family life cycle (*Offered in alternate years*).

#### **HECOL 322 Family Economic Issues \*3**

***Offered Winter 2009***

An examination of current issues affecting the economic well-being of Canadian families and of government policies which address those issues. Issues explored include poverty, work and family, the economics of aging, children, and money and intra-family allocation of resources. *Prerequisites: ECON 101 or ECON 102; it is recommended that students have completed both ECON 101 and 102.*

## **Agricultural, Forestry and Home Economics (Continued)**

### **Human Ecology (Continued)**

#### **HECOL 414 Seniors and Their Environments \*3**

***Offered Winter 2009***

An introduction to the environments in which older people live: the course uses an ecological framework to study the symbolic, physical, interpersonal, community, and political environments of Canadian seniors. *Prerequisite: HECOL 100 or consent of Instructor (Offered in alternate years).*

#### **HECOL 604 Fundamentals of Aging \*3**

***Offered Winter 2009***

A critical analysis of the issues and environments that influence the lives of older Canadians: focus is on theories and knowledge about age-related normative and non-normative changes and their interaction with the physical, social, community, and policy environments of older adults.

#### **HECOL 615 Families and Aging \*3**

***Not offered 2008/2009***

Current issues in mid- and later-life families including relationships between aging parents and adult children, grandparent relationships, and family care-giving. *Credit will only be granted for one of FAM 615 or HECOL 615.*

## **ARTS**

### **Anthropology**

#### **ANTHR 110 Gender, Age, and Culture \*3**

***Offered Spring and Fall 2008***

An anthropological review and comparison of cultures, in terms of social positions based on differences in sex and age.

### **Drama**

#### **DRAMA 407 / 507 Studies in Drama II**

**Intergenerational Performance \*3**

***Offered Fall 2008 and Winter 2009***

A group of seniors and students create original theatre. Students will work with *The GeriActors*, a seniors' theatre company that writes and performs its own material. Students will research seniors' theatre, and develop original dramatic scenes that explore relationships between generations. No theatre experience is required. *Prerequisite: Consent of Instructor.*

### **Sociology**

#### **SOC 375 Sociology of Aging \*3**

***Offered Spring and Fall 2008***

Aging as a socio-cultural phenomenon. Includes aging in relation to the self-concept, family, religion, politics, health, retirement and leisure, housing, and attitudes toward death, with particular emphasis on Canadian society. *Prerequisite: One of SOC 100 or 300.*

## **Arts (Continued)**

### **Sociology (Continued)**

#### **SOC 401 Selected Topics in Sociology Health and Aging \*3**

**Offered Winter 2009**

In this advanced seminar course, students will critically examine current issues relating to health and aging from an organizational perspective. Emphasis will be placed on understanding the health of older adults and the care provided to this growing segment of our population. The interface of self care, the care provided by family and friends, and the formal care system will be discussed. Attention will be given to the Canadian experience of aging, with Canadian research reviewed wherever possible.

#### **SOC 452 Mortality and Population Health \*3**

**Offered Winter 2009**

Analysis of variations, trends and patterns of human mortality and morbidity in historical and contemporary contexts; comparisons of the experiences of Canada, other industrialized nations, and developing countries with respect to causes of death and illness; demographic aspects of aging and its relationship to morbidity and mortality health surveys and policies. *Prerequisite: SOC 251.*

#### **SOC 473 Sociology of Death and Dying \*3**

**Offered Spring and Fall 2008 and Winter 2009**

Comparative examination of death and dying in socio-cultural contexts, including theoretical and methodological issues. *Prerequisite: SOC 241 or 375.*

#### **SOC 475 Advanced Sociology of Aging \*3**

**Not offered 2008/09**

In-depth examination of selected theoretical approaches, methodological issues, and topics of substantive concern in the study of aging and the aged. *Prerequisite: SOC 375.*

#### **SOC 675 Seminar in the Sociology of Aging \*3**

**Not offered 2008/09**

This seminar will examine the sociology of aging from local (Alberta), global, cultural, demographic, policy, and social constructionist perspectives. Unifying themes are the social demography of population aging and the social construction of individual and populating aging.

## **ARTS AND SCIENCE**

### **Psychology**

#### **PSYCO 459 Human Aging: Cognitive Processes \*3**

**Not offered 2008/2009**

A survey of the sensory, perceptual, memory, and cognitive changes in normal aging. Topics may include the relationship of psychological, environmental, social and health factors to cognitive processes. *Prerequisites: PSYCO 258 and a 300-level Psychology course.*

## **Arts and Science (Continued)** **Psychology (Continued)**

### **PSYCO 505A1 (Science) Aging, Cognition and Alzheimers\*3**

***Not offered 2008/09***

This seminar course focuses on cognitive and neurocognitive changes and transitions that occur during the latter part of adulthood, characterizing and differentiating among normal cognitive aging, mild cognitive impairment, dementia, and neurodegenerative diseases such as Alzheimer's. Selected topics include key cognitive processes of aging (e.g., episodic memory, neurocognitive speed), prominent predictors (e.g., biological markers, risk/protective factors), and patterns (e.g., intraindividual variability, individual differences), and basic theories of neurodegeneration (Beta Amyloid, Tau, inflammation), and some practical implications (clinical, epidemiological). *Open to Psychology graduate students and others by permission.*

<b>MEDICINE AND DENTISTRY</b>
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## **Dentistry**

### **D HYG 345 Geriatrics \*1**

***Offered Winter 2009***

An introductory course describing the needs of the elderly: examines the changing population balance in Canada involving both medical and dental aspects of people over 60 years of age. *Open only to students registered in the DDS program. Taught in conjunction with DDS 547 Lec B1.*

### **DDS 506 Gastroenterology and Nutrition \*5**

***Offered Fall 2008***

An integrated course covering: nutrition, gastrointestinal physiology, pathophysiology and anatomy. Related surgical, paediatric and geriatric topics will also be addressed. *Open only to students registered in the DDS program.*

### **DDS 547 Geriatrics \*1**

***Offered Winter 2009***

An introductory course describing the needs of the elderly, the course will examine the changing population balance in Canada involving both medical and dental aspects of people over 60 years of age. *Open only to students registered in the DDS program. Taught in conjunction with D HYG 345 Lec B1.*

## **Medicine**

### **MED 521 Gastroenterology and Nutrition \*5**

***Offered Fall 2008***

An integrated course covering nutrition, gastrointestinal physiology, pathophysiology, and anatomy. Related surgical, pediatric, and geriatric topics will also be addressed. *Open only to students registered in the MD program.*

### **MED 555 Geriatrics Student Internship \*2**

***Offered Fall 2008 and Winter 2009***

Student internship in Geriatrics for students registered in the MD Program. *Credit will not be granted for both MED 545 and 555.*

## **Medicine and Dentistry (Continued)**

### **Neuroscience**

#### **NEURO 410 Neurobiology of Aging and Neurodegenerative Disorders \*3      *Offered Winter 2009***

Designed to provide senior undergraduate and graduate students in the Neuroscience program a comprehensive overview of the neurobiology of normal aging and neurodegenerative disorders. Both clinical and basic science aspects of major neurodegenerative disorders such as Alzheimer's disease, Parkinson's disease, Huntington disease, Prion disease and Motor neuron disease (ALS) will be covered. Video presentations of patients with neurodegenerative disorders will be presented to add clinical and psychological dimensions. Additionally, recent papers reporting new developments in each of the above disorders will be discussed. Invited lectures will be given by national/international experts on aspects of neurodegenerative disorders to amplify topics covered in the course. *Prerequisites: PMCOL 371.*

## **NURSING**

#### **NURS 191 Nursing Practice I \*5**

***Offered Winter 2008***

Beginning nursing practice with a focus on health promotion and interaction with clients across the life span in a variety of non-traditional settings. *Prerequisites: NURS 190 and 194. All Nursing courses are restricted to students in the Faculty of Nursing. Other students require consent of the Faculty of Nursing.*

#### **NURS 195 Nursing Practice II \*6**

***Offered Winter 2008***

Practice includes health status assessment of clients and appropriate health promotion and disease prevention interventions. Practice occurs in settings where clients live or in community agencies (non-acute) where services to clients are offered. *Prerequisites: NURS 190 and 194. All Nursing courses are restricted to students in the Faculty of Nursing. Other students require consent of the Faculty of Nursing.*

#### **NURS 408 Acute Care Practice II \*6**

***Offered Fall 2008 and Winter 2009***

Professional nursing practice focuses on a comprehensive application of primary health care principles to clients experiencing acute variances in health across the life span. Practice occurs in primary, secondary and tertiary level acute care settings. *Co-requisite: NURS 407. Prerequisites for After Degree and Post-RPN students: NURS 405 and 406. Note: Course is for After Degree Nursing Program, Post-RPN Program, and Bilingual Nursing Program students only.*

#### **NURS 494 Nursing in Context \*3**

***Offered Spring and Fall 2008 and Winter 2009***

Synthesis and focus of nursing knowledge and application of nursing research in a specified area of practice. *To be permitted to enroll in this course, students must have passed all courses of their nursing program, except the co-requisite NURS 495, or SC INF 495. All Nursing courses are restricted to students in the Faculty of Nursing. Other students require consent of the Faculty of Nursing.*

**Nursing (Continued)****NURS 510 Advanced Health Assessment and Applied Pathophysiology (Adult) \*4****Offered Fall 2008**

The focus of this course is on developing advanced assessment skills for diagnostic reasoning and clinical decision making in relation to common variations in the health status of adults. Students will focus on specialized assessment and applied pathophysiology in relation to specific adult populations. Opportunities to apply diagnostic reasoning skills and formulate clinical decisions required for the development of specific health care management strategies is provided through seminars, laboratory practice, and a clinical practicum in a range of health care settings. *All Nursing courses are restricted to students in the Faculty of Nursing. Other students require consent of the Faculty of Nursing.*

**NURS 542 Living with Chronicity: Issues and Concepts \*3****Offered Spring 2008**

Students explore how persons with a chronic disease or disability and their families adapt to life with this disease or disability, how society influences that adaptation, and how that adaptation affects the integration of persons with a chronic disease or disability into society. Frameworks consistent with a health promotion perspective will also be examined. *All Nursing courses are restricted to students in the Faculty of Nursing. Other students require consent of the Faculty of Nursing.*

**NURS 545 Pharmacotherapeutics in Advanced Nursing Practice \*3****Not offered 2008/09**

Graduate seminar on the principles of clinical pharmacology and their relevance to the promotion of health across the lifespan through advanced nursing practice. The psychotropics will be used as a model for the clinical application of these principles. Focus will be on the selection, prescription, and management of pharmacotherapy as adjunct to advanced nursing practice. Simulated and actual patient situations will be used to stimulate discussion and provide students with an opportunity to apply the basic principles of clinical pharmacology. *All Nursing courses are restricted to students in the Faculty of Nursing. Other students require consent of the Faculty of Nursing.*

**NURS 560 Topics in Advanced Study in Nursing End-of-Life Care in Canada \*3****Not offered 2008/09**

Interdisciplinary course exploring end-of-life care in Canada: includes identifying demographic and other variables associated with mortality, the most common causes of death, and social and cultural influences on death and dying. The primary focus of this course is gaining or improving the understanding of end-of-life care needs of persons and their families and the health system and health professional responses to date in regard to recognizing and addressing these needs. Throughout this course, naturalist and health promotion perspectives on dying will be contrasted with the prevailing illness orientation toward death and dying. *Prerequisite: Consent of Instructor. All Nursing courses are restricted to students in the Faculty of Nursing. Other students require consent of the Faculty of Nursing.*

**Nursing (Continued)****NURS 565 Selected Topics in Individual/Family Health Nursing  
(Adult) \*1-12 (variable)*****Offered Winter 2009***

Selected topics in a variety of advanced nursing practice specialty areas for case management of adults and their families in complex health care situations are emphasized. The role of the advanced practice nurse is examined from the perspective of assessing, managing, monitoring, coordinating, and evaluating health status over time. Sections with a practicum component provide opportunities to assist adults and their family within the context of the health care team. *Prerequisite: Consent of Instructor. All Nursing courses are restricted to students in the Faculty of Nursing. Other students require consent of the Faculty of Nursing.*

**NURS 570 Advanced Therapeutics and Applied Pathophysiology  
(Adult) \*4*****Offered Winter 2009***

The focus of this course is acquisition of knowledge and skills essential for clinical decision making for management of the individual and their family in various health care situations. Opportunities are provided to implement and evaluate preventative and therapeutic interventions, as well as health promotion strategies. Appropriate community, agency, and treatment resources that may assist in managing emergent to chronic health care situations are utilized. *Prerequisite: NURS 510; Pre- or co-requisite NURS 545. All Nursing courses are restricted to students in the Faculty of Nursing. Other students require consent of the Faculty of Nursing.*

**NURS 580 Advanced Theory and Practicum in Individual/  
Family Health Nursing (Adult) \*6*****Offered Spring 2008***

The focus of this course is to provide a culminating practicum experience in the role of the advanced practice nurse in the student's selected specialty area. Integration of theory and research in relation to practice is facilitated by course seminars. Opportunity is provided to discuss issues relevant to the advanced nursing practice role. *Prerequisite: NURS 570. All Nursing courses are restricted to students in the Faculty of Nursing. Other students require consent of the Faculty of Nursing.*

**NURS 582 Advanced Theory and Practicum in Community/  
Public Health Nursing \*4*****Not offered 2008/09***

The focus of this course is practice of advanced nursing skills in community/public health nursing with a selected population related to program and policy development, program evaluation, and/or knowledge utilization. *Prerequisite: NURS 531. All Nursing courses are restricted to students in the Faculty of Nursing. Other students require consent of the Faculty of Nursing.*

**PHARMACY AND PHARMACEUTICAL SCIENCES****PHARM 387 Pediatrics/Geriatrics \*3*****Offered Fall 2008***

An integrated science and therapeutics based course covering the relevant material relating to anatomy, physiology, pathophysiology, clinical biochemistry, clinical toxicology, medicinal chemistry, pharmacology, pharmacokinetics, pharmaceuticals, therapeutics, complementary/alternative medicine and new or future advances in the treatment and management of age related issues in special populations. *Restricted to Pharmacy students.*

## PHYSICAL EDUCATION AND RECREATION

### **PEDS 385 Physical Activity and the Aging Adult \*3**

***Offered Winter 2009***

An examination of the role of physical activity on the health and lifestyle of aging adults. Note: PEDS 385 was formerly PEDS 484. Credit will only be granted for one of these courses. *Enrolment in all PEDS courses is restricted to students registered in the Faculty of Physical Education and Recreation, or to students registered in specified programs that require PEDS courses to meet degree requirements. Other students must obtain prior approval of the Faculty.*

### **PEDS 485 Educational Gerontology in Physical Activity, Fitness, and Sport \*3**

***Not offered 2008/09***

The study and practical application of the principles of educational gerontology. Involves students in the analysis and instruction of older adults in a variety of sport, fitness, and physical activity settings. Focus is on the issues and challenges of instruction in two populations: (1) aged, frail adults and (2) elderly, athletic adults. Note: PEDS 485 was formerly PEDS 384. Credit will be granted for only one of these courses. *Enrolment in all PEDS courses is restricted to students registered in the Faculty of Physical Education and Recreation, or to students registered in specified programs that require PEDS courses to meet degree requirements. Other students must obtain prior approval of the Faculty.*

### **PEDS 545 Exercise Oncology \*3**

***Offered Winter 2009***

An overview of the potential role of physical exercise in cancer prevention and control. Specifically, physical exercise is examined for purposes related to cancer prevention, coping, rehabilitation, palliation and survival. A multidisciplinary perspective draws on kinesiology, oncology, epidemiology, psychology, rehabilitation medicine and palliative care. *Enrolment in all PEDS courses is restricted to students registered in the Faculty of Physical Education and Recreation, or to students registered in specified programs that require PEDS courses to meet degree requirements. Other students must obtain prior approval of the Faculty.*

### **PERLS 544 Aging, Health and Active Living \*3**

***Not offered 2008/09***

An exploration of the benefits and risks of late-life physical activity, as well as life course barriers and incentives to health promotion through active living. The course will examine theoretical explanations for sedentary leisure of older adults through a critical review of the interdisciplinary gerontological literature.

## REHABILITATION MEDICINE

### **Occupational Therapy**

#### **OCCTH 414 Core 4: Advanced Application of Occupational Principles Across the Lifespan \*6**

***Not offered 2008/09***

Application of occupational therapy principles and evidence-based practice, focusing on children and older adults using a lifespan approach, current theories, and complex integrated case studies. *Prerequisites: OCCTH 310, 328. Co-requisites: REHAB 455. Open to Occupational Therapy students only.*

## **Rehabilitation Medicine (Continued)**

### **Occupational Therapy (Continued)**

#### **OCCTH 557 Enabling Occupation: Across the Lifespan \*6**

***Offered Winter 2009***

Application of occupational therapy principles; supported by evidence-based practice with an emphasis on children and older adults, and using current theories and complex integrated case studies. *Prerequisite: Completion of all Year 1 academic and fieldwork courses.*

### **Physical Therapy**

#### **PTHER 546 Neurology I \*6**

***Offered Fall 2008***

Introduction to the theory and application of physical therapy in neurology with children and adults. Areas of practice will include assessment, intervention, outcome evaluation, therapeutic exercise, electrophysical agents, and evidence-based skills. These clinical skills will be integrated into the context of practice with relevant issues in research application, measurement and evaluation. *Prerequisites: PHER 539, 542 and 544. Co-requisite: PHER 547 and REHAB 455. Open to Physical Therapy students only.*

#### **PTHER 547 Movement Across the Lifespan \*2**

***Not offered 2008/09***

An examination of typical motor development and how movement changes across the lifespan. The interactive effects of the task, environment and age-related changes in postural control, the musculoskeletal system, and the cardiorespiratory systems will be explored. Students will apply this knowledge of movement to prevalent age-related conditions treated by physical therapists. *Open to Physical Therapy students only.*

### **Speech Pathology and Audiology**

#### **SPA 520 Adult Language Disorders I \*3**

***Offered Winter 2009***

Study of acquired aphasia; including the nature of the underlying neuropathologies, methods of differential diagnosis and comprehensive assessment, and clinically pertinent behavioral management strategies. Students will develop their understanding of the course material via a series of clinical problem solving and treatment planning exercises. *Prerequisite: SPA 502 or equivalent. Restricted to MSc-SLP students.*

#### **SPA 521 Dysphagia \*1.5**

***Offered Fall 2008***

This course will provide an overview of the anatomical and neurophysiological bases of normal and abnormal feeding and swallowing in adults and children. Structural and neurological conditions commonly associated with dysphagia will be reviewed. A framework of interdisciplinary assessment and management of dysphagia will be provided. *Prerequisite: SPA 502 or equivalent. Restricted to MSc-SLP students.*

**Rehabilitation Medicine (Continued)**  
**Speech Pathology and Audiology (Continued)**

**SPA 529 Adult Language Disorders II \*3**

***Offered Fall 2008***

Study of conditions (other than aphasia) affecting language, social, and cognitive functioning in adults, including traumatic brain injury, dementia, and right hemisphere dysfunction, and issues related to the aging process. Nature of underlying neuropathologies and their implications for differential diagnosis, assessment, and management will be addressed. *Prerequisite: SPA 520. Restricted to MSc-SLP students.*

*Last updated October 2007*