RS 3062b
COURSE OUTLINE

euroscience for Special Populations
School of Health Studies
Rehabilitation Sciences
2011

se Coordinator & Instructor:
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Functional Neuroscience for Special Populations
Course Outline

1.0 COURSE INFORMATION

1.1 Prerequisites

The prerequisites for this course are Biology 1222 or 1223 or Physiology 1021 or equivalent; Health Sciences 2300A/B or Kinesiology 2222A/B or Anatomy and Cell Biology 2221; Registration in the Honours Specialization, Major or Minor modules in Rehabilitation Sciences. It is the student's responsibility to ensure that they have the necessary prerequisites for this course. If you do not have these prerequisites (or special written permission to take the course), you are not eligible to take this course and you may be removed from this course and it will be deleted from your record. Taking a course without the prerequisite is not grounds for appeal.

1.2 Course Outline

There are 3 lecture hours per week: Wednesdays, 9:30 to 12:30. Lectures will be held in room 9 of the Health Sciences Building (HSB). This course will also feature 2 anatomy laboratory sessions (location TBA) and 2 community volunteer classroom visits. These will be held during the regular lecture time.

The course is broken up into two sections. The first section of the course will cover the anatomy and physiology of the nervous system. This section is supported by opportunities to see prepared specimens of the brain and spinal cord (taught by Dr. Dan Belliveau). This first section serves as the foundation for the second part which will examine some of the major neurological diseases and conditions. This section of the course will be supported by an opportunity to listen to first-hand accounts of living with a neurological condition from community volunteers.

The methods of evaluation in this course are described in detail in section 3.0 below and will

1.4 Course Objectives

1.4.a. To introduce students to the anatomical and functional arrangements of the nervous system at all levels, from cell to systems.

1.4.b. To introduce the major neurological disorders and diseases with an emphasis on issues related to rehabilitation and recovery.

1.4.c. To provide students with an opportunity to learn from and interact with individuals who are living with a neurological condition.

2.0 INSTRUCTOR INFORMATION

2.1 Course coordinator and instructor

Kara Patterson PhD, PT
Assistant Professor, School of Physical Therapy
Office: Elborn College, R abilita

3.0 METHODS OF EVALUATION

The following is a breakdown of the evaluations in this course.

Evaluation	% of Course Mark	Description	Due Date
Midterm Examination	30%	Up to and including the neuroanatomy lab session on February 9, 2011. Format includes multiple choice, matching and short answer questions.	February 16, 2011 9:30-11:30am

Neuroanatomy

current research regarding neuroplastic changes that occur after a person has sustained the condition you selected (i.e. stroke or spinal cord injury) and 2) scientific evidence of the effectiveness of therapeutic approaches based on the principles of neuroplasticity for the condition chosen.

The references should be in APA format. A minimum of five (5) references must be used. The references can be from primary articles, review articles, textbooks and/or manuals. You may include no more than 1 reputable website as a reference (e.g. Heart and Stroke Foundation of Canada, Rick Hansen Foundation, Society for Neuroscience).

The report must be 1000 words in length, not including the title page, references and any

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4.0 EXPECTATIONS

7.0 LECTURE SCHEDULE (subject to change)