FACULTY OF HEALTH - KINESIOLOGY AND HEALTH SCIENCE York University 2018-2019

Course: HH / KINE 3600 – Athletic Therapy II Course Webpage: Moodle

Term: Winter Term 2019

Prerequisite / Co-requisite: HH/AS/SC KINE 2490 Athletic Therapy I

HH/AS/SC KINE 2031 Human Anatomy

Course Instructor:

Marnie McRoberts, BA, BAHSc, CAT(C), RKin Office: Stong College (by appointment)

Email: through Moodle, or mcroberts.yorku@gmail.com

Graders: TBA

Time and Location:

Lectures Section M – TR 1:00pm - 2:30pm VH 1152A

First IN-PERSON Class starting on January 3rd, 2019 Final IN-PERSON Class on April 2nd, 2019

EXPANDED COURSE DESCRIPTION:

This course will expand on previous knowledge gained from Athletic Therapy I. It will provide students with an overview of various themed topics in Sports Medicine, which builds on the foundation for Athletic Therapy. In this course we will discuss an overview of the human factors involved in sports medicine drawing from the following areas: female athlete, male athlete, pediatric athlete, mature athlete, differently abled body athlete, travel, pharmacology, nutrition, performance enhancing agents, alternative therapies and psychology.

Organization of the Course:

The course involves formal lectures. The lectures may be supplemented by videos. The required readings are essential to the course. Interaction through Moodle is essential.

Course Learning Objectives:

(1) Brief statement of the purpose:

The purpose of this course is to assist students in the biophysical aspects of sports medicine.

(2) Brief list of specific learning objectives of the course:

The student will:

• be able to describe the factors related to specific groups who are participating in sport and physical activity

- understand recent research related to sports medicine and the human factors of sport and physical activity
- demonstrate the ability to apply theory in the context of class discussion

University Undergraduate Degree Level Expectations (UUDLEs):

- Demonstrate knowledge of the terminology and nomenclature in kinesiology and Health Science
- Describe the process of research that is used to develop knowledge in the field of Kinesiology and Health Science.
- Apply subject-based theories, concepts or principles to solve problems related to Athletic Therapy
- Use appropriate academic terminology and notation when preparing and presenting information
- Be aware of the limits in knowledge and methodologies when analyzing, evaluating, interpreting and disseminating information
- Be able to think independently, problem solve and set tasks

COURSE TEXT / READINGS:

Required: Anderson, M.K. (2017). Foundations of

Athletic Training, (6th Ed). Phil., PA: Lippincott, Williams & Wilkins.

ISBN-13: 978-1-4963-3087-1

Please note that additional readings may be assigned or recommended during the course. Refer to Moodle for additional content.

COURSE TOPICS / READINGS:

CLASS	DATE	TOPIC	RECOMMENDED READINGS	ASSIGNMENTS/ EXAMINATIONS DUE
1	January 3rd	Course Introduction:Course requirementsInformation on readingsMoodle information	None	
2	January 8th	The Female Athlete – Differences & Conditions:	SEE MOODLE	
3	January 10 th	 Comparison between the sexes Skeletal differences Body composition Physiological differences Training and performance Female injuries Sports injuries 		

		Diamaghanias I sussitions at the		
		Biomechanical predisposition		
		Prevention strategies		
		Disorders of the breast		
		Bladder and urethra		
		Other injuries		
		The Female Athlete – Gynecological		
		Conditions & Irregularities:		
		 Female reproductive system 		
		 Athletes & menstruation 		
		 Gynecological irregularities 		
		 Hormonal imbalances 		
		 Female athlete triad 		
		 Eating disorders (male & female) 		
		The Female Athlete – Through Pregnancy		
		& Menopause:		
		- Use of oral contraceptives		
		 Pregnancy and sport participation 		
		- Menopause		
		The Male Athlete:	SEE MOODLE	
		- Male injuries	011	
		Sports injuries		
4	January	Male genitalia		
	15 th	Testicular dysfunction & sport		
		Hernias (males and females)		
		Cancers		
	January	The Paediatric Athlete – Sports	SEE MOODLE	
5	17 th	Medicine:	SEE WIOODEL	
	January	- Psychological issues		
6	22 nd	- Sociological issues		
	22	- Physical issues		
		- Training young children –		
		controversies		
		- Risk factors		
		- Levels of participation		
		- Growth related differences		
		- Equipment considerations		
		- Growth anatomy		
7	January	- Epiphyseal injuries		
	24 th	The Paediatric Athlete – Injuries:		
		- Growth related problems		
		- Cartilage / Growth plate		
		- Injuries & Conditions		
		The Paediatric Athlete – Fractures:		
		- Types of fractures in children		
		- Epiphyseal and physes fractures		
		 Spondylolysis / Spondylolisthesis 		
		 Salter-harris classification 		

		- Thermoregulation		
		Veteran & Masters Athletes:	No Textbook	
		 Aging & the athlete 	Readings	
	lance.	 Physiological considerations 		
8	January 29 th	 Orthopaedic considerations 	SEE MOODLE	ONLINE QUIZ
	29"	- Benefits of exercise		
		- Risks of exercise		
		- Typical age-related conditions		
_	January	Athletes with a Disability:	No Textbook	
9	31 st ,	- Disabilities & sport	Readings	
	February	- Classifications		
	5 th	- Spinal cord injury & related	SEE MOODLE	
10	ONLINE	medical and orthopedic		
	CLASS	conditions		
	February	Autonomic dysreflexia		
	7 th	Bowel and bladder issues		
11	ONLINE	Skin conditions		
	CLASS	- Medical considerations		
	February	- Paralympics		
12	12 th	- Special Olympics		
	February	, ,		
13 Tebluary IN-CLASS MIDTERM EXAM				
	T	*** Reading Week February 16 th t		
		Nutritional Aspects of Sports Medicine:	SEE MOODLE	
	February	- Basic components		
	26 th	- Heat & hydration		
14	ONLINE	- Exercise & nutrition		
	CLASS	- Tissue healing		
		- Deficiencies		
		- Eating disorders (review)	SEE 1400BLE	
	February	Ergogenic Aids & Doping:	SEE MOODLE	
15	28 th	- Anti-doping agencies		
	ONLINE	- Ergogenic aids		
	CLASS	- Performance enhancing practices		
	N 4 = 11 = 15	- WADA prohibited list		
16	March 5 th	- Process of drug testing		
	5	- Ethics of drug testing		
		- Ergolytic drugs Pharmacology:	SEE MOODLE	
		- Names of drugs	SEE WIOODLE	
	March	- Drug interactions / reactions		
17	7 th	- Terminology & definitions		
	_ ′	- Indications / contraindications		
		- Pharmacology & the athlete		

18	March 12 th ONLINE CLASS	Pharmacology Review Assignment work period		ONLINE QUIZ
19	March 14 th ONLINE CLASS	Travelling with Teams: - Packing equipment & supplies - Documentation - Insurance	SEE MOODLE	Assignment Due Thursday, March 14 th
20	March 19 th	 EAP's (emergency action plans) Language issues Local concerns (political, environmental, health) Electricity issues Physiology of travel 		
21	March 21 st	Alternate/Complementary Therapy: - Alternative medicine	SEE MOODLE	
22	March 26 th	Homeopathy Acupuncture / acupressure Chiropractic Osteopathy Myofascial, ART therapies, muscle energy, counter strain, craniosacral therapy - Massage Physiological & psychological effects Principles of massage Massage techniques Pre and post event massage Contraindications - Hydrotherapy Aquatic therapy Equipment Indications / contraindications Principles Sport-specific hydrotherapy	SEE MOODIE	
23	March 28 th	 Psychological Aspects of Sports Injuries: Psychological response to trauma Psychological aspects of rehabilitation The stress response Cognitive appraisal of injury Athlete – medical team interaction Return to play process Pre and post injury status Visualizations 	SEE MOODLE	

24 April 2 nd Exam Review	24	April 2 nd	Exam Review		
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Evaluation:

The final grade for the course will be based on the following items weighted as indicated:

a) Tests:

Moodle Online Quiz – Jan 29th, 2019 (12am – 11:59pm)	5%
Moodle Online Quiz – Mar 12 th , 2019 (12 am – 11:59pm)	10%
Midterm Exam – Thursday February 14 th , 2019	30%
Final Exam – TBD (exam week)	35%

b) Written Assignment

Literature Review (6 pages double spaced – 12 point Arial font) 20%

Due Date: Thursday March 14th, 2019 by 11:59pm

Written Assignment:

WRITTEN ASSIGNMENT INFO

One review of literature (20%)

A review of the current literature on a specific topic. **Topics will be available online through Moodle**. You will review the research that has been conducted on a specific topic using a minimum of **6 journal articles** (not from the course readings). You will report the current thinking of the topic statement with the use of the research articles. This will be a **6 page**, double spaced paper, which will be submitted through Moodle (AMA Format).

General guidelines:

- The literature review should include research from refereed/peer-reviewed journals within the
 fields of sports medicine, athletic therapy/training, physiotherapy, and any other approved
 allied field. The synopsis should consist of a review of the literature and should present the
 current thinking on specific topics.
- You should include: a cover page, the body of the paper, and a reference page
- Only Microsoft Word documents will be accepted for your submission.
- Please be sure to read and follow all guidelines completely since this makes it easier for us to provide you with feedback.

Grading, Assignment Submission, Lateness Penalties:

Assignment Submission: Proper academic performance depends on students doing their work not only well, but on time. Accordingly, assignments for this course must be received on the due date specified for the assignment. **The written assignment must be submitted electronically through Moodle.**

Detailed instructions regarding content, referencing, and electronic submission are also available on Moodle. Do not hand the assignment in without reading these instructions. It is your responsibility to ask questions about the assignment in class if you are having trouble.

Lateness Penalty: Assignments received later than the due date will be penalized 5% per day. **No exceptions to the lateness penalty will be entertained.**

Missed Tests: Students with a documented reason for missing a course test, such as illness or compassionate grounds which is confirmed by supporting documentation (e.g. physician's statement form available in the KINE undergraduate office) may request accommodation from the Course Instructor. **Students will be allowed to write a make-up test on the same day as their final exam** after their final exam. Further extensions or accommodation will require students to submit a formal petition to the Faculty.

IMPORTANT COURSE INFORMATION FOR STUDENTS:

All students are expected to familiarize themselves with the following information, available on the Senate Committee on Academic Standards, Curriculum & Pedagogy webpage (see Reports, Initiatives, Documents) – http://www.yorku.ca/secretariat/senate_cte_main_pages/ASCP.htm

- Senate Policy on Academic Honesty and the Academic Integrity Website
- Ethics Review Process for research involving human participants
- Course requirement accommodation for students with disabilities, including physical, medical, systemic, learning and psychiatric disabilities
- Student Conduct Standards
- Religious Observance Accommodation