Mitchell, Rebecca@DCA

From: [redacted]
Sent: Tuesday, August 18, 2020 6:15 PM
To: Naturopathic@DCA
Cc: [redacted]
Subject: IV Therapy Course
Attachments: NCAS III SyllabusFall2019-9.doc

[EXTERNAL]: [redacted]

Please see attached syllabus for NCAS III. Below is the course description for the NCAS series.

Please let me know if you need any further information.

Thank you,
Parisa Saeedi-Mepham, ND
BINM Chair of Clinical Sciences

Naturopathic Clinical Art and Sciences NCAS I-VI

These courses are designed to prepare students for the reality of a clinical setting, in which people are human and problems are occasionally unclear. The course will cover many approaches, including Problem Based Learning (PBL), case-based collaborative learning, patient research, and case analysis. This course begins with clinical entrance in the third year, and continues to the end of the naturopathic medicine program. It serves as an educational core, uniting the curriculum with clinical practice

The courses include a series of projects in each term based on clinical problems or topical issues. These issues are usually presented as patient cases. It examines each facet of clinical practice to sharpen clinical, diagnostic and treatment skills, case management and professional attitudes.

The students are responsible for making the process work. The instructor's function is to facilitate and support the group by acting as a resource and serving as an unobtrusive educational coach to guide students in reasoning their way through the presented challenge.

Learning is promoted through facilitating students' access to their own prior knowledge, articulation of this knowledge as it relates to the problem and the identification of the limitations of their knowledge. The instructor also engages students in reflection on the process and provides feedback and evaluation. As the course progresses throughout the program, students become more and more responsible for their own learning and become increasingly independent of the instructor for their education.

BOUCHER INSTITUTE
of Naturopathic Medicine

BOUCHER INSTITUTE OF NATUROPATHIC MEDICINE

Course Syllabus

FALL TERM – 2019

Primum Non Nocere

Course Title:	**NCAS III**
Instructor:	**Dr. Stefan Kuprowsky, MA, ND**
Class Times:	**Tuesdays 1-4 pm** **September 10 to December 10, 2019**
Office Hours:	**Tuesdays 12 – 1 pm**
Instructor Contact:	Text/Phone: 778-866-3351 Email: skuprowsky@binm.org

Vis Medacatrix Naturae

Tolle Causam

Tolle Totum

Docere

Praeventio

Students are responsible for knowing and adhering to academic policies and procedures as outlined in the student handbook

Calendar Description:

Intravenous IV therapies covers the theoretical and practical applications of IV therapy in a naturopathic practice.

Clinical ecology studies the background and history, mechanisms behind chemical and environmental toxicology, strategies for detoxification, and various tests and evaluative techniques. An in depth presentation of allergy and allergy testing and treatment methods is also included.

Learning Goals and Objectives

A student who successfully completes this course will have reliably demonstrated the ability to:

1. Apply and demonstrate theory and practice of safe and effective application of intravenous therapy

2 Clinical Ecology

- Summarize the history of evolution of the field of clinical ecology
- Analyze the impact of environmental toxicity on individual health and its implications
- Apply in-office and laboratory methods of assessment of clinical toxicology and allergy
- Evaluate the major theoretical constructs of allergy and allergic disease
- Evaluate allergy testing and treatment methods
- Appraise the methods of environmental control and detoxification for chemicals and heavy metals
- Outline current practices in heavy metal assessment and nutrition and chelation protocols for heavy metal elimination
- Examine case studies in the application of clinical ecology methods

Course Content	
Week 1	**Introduction to IV therapies:** Understand the rationale, complications, emergencies, needles, vein selection , Intradermal Injection Practicum
Week 2	**IV Therapy** : Explain IM Injection, Sub-Q Injection, Meyers Cocktail **IV Push Practicum**
Week 3	**IV Therapy** : Calculate Osmolarity Theory, Osmolarity Calculations, , Drip Rate ; **IV Bag Practicum**
Week 4	**IV Course Review** **IV Therapy Review** **IV Bag Practicum,**
Week 5	**IV Written Exam - 45-60 minutes** **IV Bag Practicum and Skill Check-off**
Week 6	**Clinical Ecology :** Introduction to the field History of Clinical Ecology Theron Randolph and Gerald Rea Toxicity and the Environment Multiple Chemical Sensitivity Syndrome Allergy Fundamentals 1. Understand the history and evolution of the field of allergy and environmental medicine 2. Appraise the contributions of key individuals in the field of allergy and environmental medicine 3. Identify the basic principles and definitions of allergy
Week 7	**Laboratory Tests in Clinical Ecology** The Clinical Ecology Office Visit Questionnaires General Lab Studies Biological Terrain Analysis Specific Testing Protocols Detoxification: Phase 1 and 2 Chemical Assays

	1. Recognize the value of and have the ability to perform a detailed environmental history 2. Determine how and when to used detailed questionnaires in environmental histories 3. Outline the availability of different lab tests and when and how to use them 4. Describe and analyze Phase 1 and 2 detoxification mechanisms
Week 8	**Food Allergies and Sensitivities** Testing Methods for Food Allergy detection Elimination Diets Phenolics Desensitization Techniques: Injection, sublingual, homeopathic, EPD-Enzyme Potentiated Desensitization and LDA : Low Dose Antigen Therapy **1.** Evaluate the types of allergy testing available and discuss the pros and cons for each method 2. Outline the 4 types of allergy reactions and how they are tested 3. Evaluate the different treatment strategies used for food allergies
Week 9	**Introduction to Environmental Medicine** Detoxification Methods Sauna Depuration Environmental Unit Environmental Oasis in the Home 1. Differentiate the concepts of depuration vs detoxification 2. Describe the types of whole body detoxification methods available 3. Outline the mechanisms of sauna depuration therapy and be able to safely apply this treatment
Week 10	**Introduction to Chemical Toxicity** 1. Introduce the problem of modern chemical exposure through food, water and air 2. Understand the different classes of chemicals commonly encountered 3. Appraise laboratory procedures for chemical burden identification 4. Outline treatment methods including avoidance and detoxification

Week 11	**Heavy Metal Toxicity** 1. Introduce the mechanisms for Heavy Metal Toxicity 2. Understand the acute versus chronic effects of heavy metal toxicity 3. Analyze the differential effects of heavy metal effects in children and adults. 4. Appraise the advantages and disadvantages of the various heavy metal testing methods. 5. Explain nutritional strategies for heavy metal detoxification 6. Describe the practice of Chelation Therapy, which is a certification specialty in BC and many other provinces
Week 12	**Final Take Home Exam on Clinical Ecology**

Learning Activities:

Activities include but are not restricted to:

- lectures
- reading assignments
- in-class practical demonstrations and student practice in IV techniques
- problem-solving using case studies

Assessment Methods, Due Dates & Value Towards Grade:

1. **IV Exam will constitute 50 % of the grade**
2. **Clinical Ecology Take Home Exam will constitute 25 % of the grade**
3. **Attendance and Class Participation will be worth 25 % of the grade**

If 70 % is not achieved on both exams, remedial work or another examination may be required at the discretion of the instructor
Remediation must be completed by Friday, January 10, 2020

Study Strategies and Instructor Expectations:

Full attendance is expected due to the high volume of material presented and the practicums for IV therapies each week. **Certification in IV cannot be given unless full attendance for the first 5 weeks is achieved**. Any class missed must be made up in consultation with Dr Kuprowsky

Teaching Methods and Strategies:

These will include but not limited to:

- lecture using Power Point presentations which can be followed along by students
- practical demonstrations of relevant clinical techniques
- independent research with oral and written presentation
- problem-solving using case studies
- Reading and summarization of relevant articles

Required Texts and Equipment:

Recommended Texts and Equipment:

Clinical Environmental Medicine: Identification and Natural Treatment, 2018
W. Crinnion and J. Pizzorno
The Toxin Solution, 2016. Dr Joeseph Pizzorno, ND
Clean, Green and Lean by Dr Walter Crinnion 2010, Wiley Books
Food Allergies and Food Intolerance: The Complete Guide to Identification and Treatment, 2000 J. Brostoff , MD and L. Gamlin
Superhealth in a Toxic World by Mark Payne
The Allergy Handbook by Keith Mumby
Food Chemical Sensitivity by Robert Buist
An Alternative Approach to Allergies by Theron Randolph and Ralph Moss
Natural Detoxification by Jaqueline Krohn
Allergy Relief and Prevention by Jaqueline Krohn
Clinical Ecology by GT Lewith and JN Kenyon

Healing the Planet : One Patient at a Time – A Primer in Environmental Medicine by Dr Joseph Krop