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**EMP 825: Biophysics in Energy Medicine
(3 Credits)**

COURSE OVERVIEW:

This course explores the systems within the human body that transfer and process energy and information in ways that are different from the nervous, hormonal, and biochemical systems as those are usually understood. These energy and information exchanges are carried in the biofields that surround and penetrate the body and the Living Matrix, consisting of systems of interconnected substrates in the body, comprised of the materials that compose the body: the connective tissues and the fabrics within all of the cells throughout the body; the genetic material/ and the atoms, subatomic particles, and “empty” space that is actually the body’s most pervasive component. Water is an intimate and functional part of this matrix.

COURSE TOPICS:

- The Living Matrix of the body
- Biological coherence
- Soft tissue memory
- Soft tissue holography
- The body’s operating system

NEED STATEMENT

A graduate student in the energy medicine profession needs to understand the assumptions and values at the core of their knowledge – in order to fully communicate their own knowledge, critically assess the work of other professionals, and extend their own research and therapeutic methods in the energy medicine specialty of biophysics and bioenergetics.

LEARNING OBJECTIVES:

Students who successfully complete this course will be able to explain the following principles in the biophysics of the Living Matrix:

- Electronic mobility in the living fabric
- Architecture and vibrations in the living matrix
- Cooperative and collective phenomena
- Electrodynamics coupling and resonant transfer
- Sensation conduction in the living matrix
- Soft Tissue memory and holography
- Soliton propagation and biological coherence
- Quantum coherence in the living matrix

Audience:

Open to all students in the Doctoral program.

FACULTY-STUDENT COMMUNICATION

- Telephone Contacts

It is important that the students arrange by email beforehand for all telephone communications. Periodic telephone interaction, as required, at student's expense, can most easily be arranged through email contact.

- Communications

It is requested that students stay in weekly correspondence with the instructors using e-mail. The student can also set up periodic telephone conversations, at their expense, to discuss problems, concerns, or determine the direction of their course work. Students are always encouraged to contact the instructor by e-mail, or telephone whenever a major concern may arise. It should be understood that as mature students, it is the responsibility of the students to stay in contact with their instructors. The instructor is also willing to set up one-on-one discussions with the student via audio & video Internet exchange using a variety of Net programs. Check your e-mail frequently for messages.

Students will normally send communications via email and submit papers as MSWORD Format files attached to email messages. Synchronous Internet sessions can also be used for "chat sessions". In this case, students are asked to download and use Yahoo Messenger Chat and Voice Chat.

COURSE DELIVERY STYLE

Distance Education - Coursework is completed at a location determined by the student utilizing a computer that has the ability to play audio and video clips, with Microsoft Office Word, Excel, PowerPoint, Adobe Reader, along with a current web browser, internet connection and email address. Contact and communication with distance students is typically conducted by telephone, Internet, Skype, text chat, and email. Students are also encouraged to contact the University by facsimiles, and postal mail, and by personal visit to the University.

All lessons, coursework and papers must be copied to lessons@energymedicineuniversity.org from both the student and professor.

1) Reading Assignments and topic discussions

Students will read the course assignments and text materials and provide questions for exploration and clarification during a telephone conference.

2) Course Paper/Project

Students will conduct research in the technical literatures specific topic proposed by the student and approved by the instructor, and write a thirty page paper assessing the state of knowledge on the topic.

COURSE ASSIGNMENTS

Assignment #1: Read James L. Oschman, *Energy Medicine in Therapeutics and Human Performance*, Butterworth-Heinemann, 2003; and Mae-Wan Ho, *The Rainbow and the Worm; the Physics of Organisms*, 3rd edition, World Scientific Publishing, 2008

Assignment #2: Provide at least six questions for deeper exploration in a class meeting via telephone conference.

Assignment #3: Write a proposal for literary research on the topic of your choice and submit it for feedback and approval.

Assignment #4: Post a progress report in accordance with the semester schedule established by Dr. Oschman

Assignment #5: Submit a draft of the final research paper for feedback.

Assignment #6: Submit the revised research paper.

INDIVIDUALIZATION OF STUDENT ASSIGNMENTS

Each research project will be chosen by the student to best support their individual professional goals, yet each student will also benefit from seeing the fruits of all fellow students' research and providing professional criticism of each others work.

Each student will be afforded the opportunity of writing on a subject that is related to his or her field of interest. This will assist the student in making each paper individualized. Also the student is encouraged to go outside the field and obtain research data from other interdisciplinary areas. Each student, based on his or her background, will be encouraged to transfer that theoretical information which the course provides into a practical format in the final paper or project.

COURSE GRADING DETERMINANTS

Grades are based on the following elements of a student's participation and accomplishment. In determining a grade for this course, the following formula will be used:

Reading required texts and papers– 30%

Discussions and Postings – 20%
Course paper or project – 50%

Using this technique, there will be 100 points assigned to the course. Final semester grades will be calculated as follows:

92-100 points = A range
86-91 points = B range
80-85 points = C range
70-80 points = D range
Under 70 points = F

COURSE COMPLETION TIMETABLE

- Each semester a specific schedule will be posted
- In general the timetable will be
- Week #1-3 Assignment 1
- Week #3-4 Assignment 2
- Week #5 Assignment 3
- Week #9 Assignment 4
- Week #14 Assignment 5
- Week #16 Assignment 6

SPECIAL NOTES AND INSTRUCTIONS

All coursework must be completed in a timely fashion. Students are encouraged to phone or e-mail the instructor whenever they need advice, comments, or instruction. If possible, all students should send instructors a short bio and photograph for their files.

REQUIRED TEXTS

James L. Oschman, *Energy Medicine in Therapeutics and Human Performance*, Butterworth-Heinemann, 2003

Mae-Wan Ho, *The Rainbow and the Worm; the Physics of Organisms*, 3rd edition, World Scientific Publishing, 2008