**Current Issues in Clinical Genetics**

**Course Director**
John E. Wiley, Ph.D.

**Address**
Brody 3E140

**Telephone**
744-2530

**Email:** wileyj@ecu.edu

**Assistant:** Phyllis Langston

**Phone:** 744-2305

**Email:** langstonp@ecu.edu

**Fax:** 744-2895

**Max Enrollment**
8

**Duration**
2 weeks

**Meeting Time**
See Blackboard for more information/contact Dr. Wiley if Bb is not accessible

**Blocks Offered**
All blocks

**Goals**
The goal of this course is to make students aware of the impact of current research and current standards of care in Genetics on their clinical practices. Students will use case studies to develop their clinical reasoning skills in the diagnosis, prevention, and treatment of genetic diseases. Emphasis will be placed on taking a family history, creating a pedigree, and on the role of genetic testing. Ethical, legal, and social issues may also be discussed.

**Objectives**
Upon completion of this course, the student will:

1. Elicit a complete family history and create a pedigree.
2. Describe the genetic basis of disease.
3. Use information systems to acquire appropriate information about the prediction and management of genetic disease.
4. Recommend genetic screening and testing to predict the occurrence of genetic disease.
5. Counsel the patient about genetic screening and testing.
6. Counsel the patient about the prevention and treatment of genetic disease.
7. Provide patients and their families with appropriate information resources.
8. Discuss with patients the ethical, legal, and social issues of genetic testing and genetic diseases.

**Activities/Student Experience**
The student will participate in two different experiences. One will be a Web-based review of genetics including an interactive Web-based case study and a learning experience using genetics information resources. The second will be a clinical experience in the medical genetics clinic or the cytogenetics laboratory.

**Evaluation**
- Disease presentation and use of online resources
- Patient presentation (written) if clinic is chosen or perform karyotyping under the guidance of laboratory personnel
- Participation in all of the course activities

**Date Updated**
March 2011-jw