

# Minnesota State University Moorhead

## WS 406: DNA as Destiny: Genetics and Society

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: Goal 09 - Ethical/Civic Resp

This course examines the various ethical, legal and social implications (ELSI) of genetic research and the applications of current and future applications of new genetic technologies. It is designed to provide students in any major, with the necessary background to make informed decisions about these issues in a socially and civically responsible manner. MnTC Goal 9.

### B. COURSE EFFECTIVE DATES: 01/10/2011 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Human Genome Project
2. Genetic Determinism
3. Human-centered biology
4. Reproductive Technology
5. Genetics and Race in Humans
6. Genetics and the Gender Spectrum
7. Genome-based Forensics
8. Genetic Discrimination and Protections
9. Gene Ownership by Groups or Individuals
10. Commercialization of Genes
11. Genetically Modified Organisms
12. Reproductive Cloning
13. Therapeutic Cloning & Regenerative Medicine
14. Large Population Assessments & Pharmacogenomics
15. Gene Therapy
16. Behavioral Genetics
17. Epigenetics

### D. LEARNING OUTCOMES (General)

1. Examine, articulate, and apply their own ethical views.
2. Understand and apply core concepts (e.g. politics, rights and obligations, justice, liberty) to specific issues.
3. Analyze and reflect on the ethical dimensions of legal, social, and scientific issues
4. Recognize the diversity of political motivations and interests of others
5. Identify ways to exercise the rights and responsibilities of citizenship.

## **E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

Goal 09 - Ethical/Civic Resp

1. Examine, articulate, and apply their own ethical views.
2. Understand and apply core concepts (e.g. politics, rights and obligations, justice, liberty) to specific issues.
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## **F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

## **G. SPECIAL INFORMATION**

None noted