Online Ethics Center
FOR ENGINEERING AND SCIENCE

Genomics, Ethics and Society Course

Description

This course consists of 8 units. Units 1-7 each last approximately 2 weeks.

Abstract

The first Unit (1) provides an *introduction* to genomic science, ethics, and policy.

Units 2 through 7 deal with specific ethical issues raised by genomics in the context of:

2. *synthetic biology and microorganisms*,
3. *genetics and crops*,
4. *genetic modification of domestic animals*,
5. *genetics and conservation,*
6. *human genetic therapies and human enhancement*, and
7. *privacy and genetic information*.

Units 2-7 are organized into a consistent unit structure:

- Navigation and essential question;
- Background;
- Selected Issues In Depth;
- Readings;
- Discussion;
- Case Analysis;
- Additional Resources;

- Unit Evaluation Survey

Unit 8 contains the final case study. This is the concluding piece of assessment for the course.

Also included are some notes for instructors who may wish to use this course or parts of it.

This course received funding from the National Science Foundation Award Number:1237881
Project Title:Collaborative Research: Genomics & Society - Exploring ethics, impacts and consequences of technological advances.

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Resource Type

Educational Activity Description

Topics

Animal Use
Communicating Science and Engineering
Confidentiality
Controversies
Cultural Awareness and Sensitivity
Data Management
Diversity
Dual Use Research
Embryo Research
Emerging Technologies
Environmental Justice
Governance

Human Enhancement
Human Rights
Human Subjects Research
Privacy and Surveillance
Public and Community Engagement
Public Health and Safety
Public Well-being
Responsible Innovation
Risk
Safety
Security
Social Justice
Social Responsibility
Sustainability

Discipline(s)

Genetics and Genomics
Life and Environmental Sciences