

# **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. <u>human genetic therapies and human enhancement</u>, 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.

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#### **Rights**

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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