



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.

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## **Rights**

Use of Materials on the OEC

## **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