



HUMANITIES 111: FUNDAMENTAL CONCEPTS OF ART AND MUSIC

REQUIRED TEXTS:

Joshua C. Taylor, *Learning to Look*
Alberti, *On Painting*
Josef Albers, *Interactions of Color*
Svetlana Alpers, *Vexations of Art*
Susanne Langer, *Feeling and Form*
Rainer Maria Rilke, *Letters on Cézanne*

REQUIRED ARTWORKS AND MUSICAL PIECES:

Renaissance paintings illustrating the use of perspective
Paintings by Cézanne and at least one Impressionist
Velazquez, *Las Meninas*
Bach, *Goldberg Variations* (Glenn Gould recording)
Mussorgsky, *Pictures at an Exhibition* (piano version and orchestration by Ravel)

SUGGESTED TEXTS AND OTHER COURSE MATERIALS:

Plato, *Ion*
Ovid, *Metamorphoses*
Leo Tolstoy, *What is Art?*
Boralsky, *A Brief History of the Artist from God to Picasso*
Vasari, *Lives of the Artists* (e.g., Uccello and Michaelangelo)
Ralph Ellison, *Jazz Writings*
Alex Ross, *The Rest is Noise*
Representative compositions from Western classical, jazz and other world musical traditions
Representative works of visual art from a range of artistic traditions
Representative works of aesthetics and fine arts criticism

HUMANITIES 112: LITERATURE IN THE ANCIENT WORLD

REQUIRED TEXTS:

Bible: David narratives
Homer, *Odyssey*
Sophocles, *Oedipus* and *Antigone*
Aristotle, *Poetics*
Auerbach, *Odysseus' Scar*

SUGGESTED TEXTS:

Enuma Elish
Mahabharata
1001 Arabian Nights
Murasaki Shikibu, *The Tale of Genji*
Sophocles, *Oedipus at Colonus*
Other works of premodern literature from various world traditions

HUMANITIES 113: LITERATURE IN THE MODERN WORLD

REQUIRED TEXTS:

Shakespeare, *Hamlet*, *Othello* or *King Lear* (if choosing *Hamlet*, Grammaticus's *Amleth* may be used)
Selections from *Norton Anthology of Poetry*
At least one of the following major novels: Austen, *Pride and Prejudice* or *Emma*; Dostoevsky, *Brothers Karamazov* or *Crime and Punishment*; Ellison, *Invisible Man*; Morrison, *Beloved* or *Song of Solomon*
At least one of the following works of shorter fiction: Chopin, *The Awakening*; Dostoevsky, *Notes from Underground*; Hurston, *Their Eyes Were Watching God*; Woolf, *To the Lighthouse*; short stories by Borges, James, Joyce, Kafka, Melville, or O'Connor
One modern play from the following list: Beckett, *Waiting for Godot*; Chekhov, *Three Sisters*; Pinter, *The Homecoming*; Stoppard, *Rosencrantz and Guildenstern are Dead* (to be used only in conjunction with Shakespeare's *Hamlet*)

HUMANITIES 211: RELIGIOUS REASONING

REQUIRED TEXTS:

Hebrew Bible: Genesis, with selected rabbinic literature
New Testament: Gospel of John, selected Pauline Epistle
Qur'an: early Meccan surahs, surahs retelling biblical stories
Augustine, *Confessions*
Anselm, *Proslogion*
Julian of Norwich, *Showings* or *Teresa of Avila*, *Autobiography* or *Interior Castle*
Kierkegaard, *Fear and Trembling (Preface, Exordium, Eulogy on Abraham)*
Pascal, *Pensées*

SUGGESTED TEXTS:

Catherine of Siena, letters or *Dialogue of Divine Providence*
al-Ghazali, *Deliverance from Error*
Maimonides, *Guide for the Perplexed* (selections)
Upanishads
Bhagavad Gita
Confucius, *Analects*

HUMANITIES 212: PHILOSOPHICAL REASONING

REQUIRED TEXTS:

Plato, *Apology*, *Phaedo*, *Phaedrus*
Aristotle, *Nicomachean Ethics*
Descartes, *Meditations on First Philosophy*
Locke, *Essay on Human Understanding*, or Hume, *Dialogues on Natural Religion*
Kant, *Prolegomena to Any Future Metaphysics*
Nietzsche, *"On the Prejudices of the Philosophers"* (*Beyond Good and Evil*)
Wittgenstein, *Philosophical Investigations*
Beauvoir, *Ethics of Ambiguity*

SUGGESTED TEXTS:

Dhammacakkappavattana Sutta (with commentaries)
Book of Equanimity
Dhammapada
Tao Te Ching
Aristotle, *Metaphysics*
Ibn Tufayl, *Hayy Ibn Yaqzan*

HUMANITIES 213: CRITICAL ASSESSMENT IN THE HUMANITIES

REQUIRED TEXTS:

Nietzsche, *Birth of Tragedy* (with music by Debussy and Wagner)
Buber, *I and Thou*
Woolf, *Mrs. Dalloway*
Heidegger, *Origin of the Work of Art* (with art by van Gogh)
Harlem Renaissance unit: visual art, jazz, texts by Locke, Schuyler and Hughes
Cone, *God of the Oppressed* and/or *The Spirituals and the Blues (with music)*
Sontag, *On Photography* (with photography by Diane Arbus and others)
Butler, *Antigone's Claim*

SUGGESTED TEXTS:

Derrida, *Plato's Pharmacy*
 Nietzsche, *Genealogy of Morals*
 Representative works of criticism on texts in the Humanities curriculum

**LOGIC AND MATHEMATICS 121:
 CLASSICAL FOUNDATIONS OF
 LOGIC AND MATHEMATICS**

REQUIRED TEXTS:

"Bits and Bins" (faculty-authored logic problem)
 Aristotle, *Posterior Analytics*
 Euclid, *Elements, Book 1*
 Descartes, "Discourse on the Method" and/or "Rules for the Direction of the Mind"

SUGGESTED TEXTS:

Aristotle, *On Interpretation, Prior Analytics, Topics, Categories, Sophistic Refutations*
 Euclid, *Elements, Book 5*
 Nicomachus of Gerasa, *Introduction to Mathematics*
 Diogenes Laertius, *Book 7 of Lives of Philosophers* (excerpts on Stoic Logic)
 Descartes, "Geometry"
 Apollonius of Perga, *Treatise on Conic Sections*

**LOGIC AND MATHEMATICS 122:
 MODERN FOUNDATIONS OF LOGIC
 AND MATHEMATICS**

REQUIRED TEXTS:

"A Little Reasoning about Reasoning and Logic" (faculty-authored essay)
 Lobachevsky, *Geometrical Investigations on the Theory of Parallel Lines*
 Newton, *Principia*
 Einstein, *Relativity*
 "On Paradox" (faculty-authored essay)
 Nagel & Newman, *Gödel's Proof*

SUGGESTED TEXTS:

Newton and/or Leibniz on fundamental theorems of calculus
 Boole, *Laws of Thought*
 Venn, *On the Diagrammatic and Mechanical Representation of Propositions and Reasonings*
 Foundational texts in statistics and probability (e.g., Bayes 1763, Laplace ca. 1820, Fisher 1925)
 Cantor on infinite numbers
 Dedekind, *Essays on the Theory of Numbers*

**NATURAL SCIENCES 131:
 PREMODERN SCIENCE AND THE
 CHEMICAL REVOLUTION**

REQUIRED TEXTS:

Aristotle, *The Physics*
 Bacon, *The Novum Organum*
 Shamos, *Great Experiments in Physics* (selections)
 Lucretius, *On the Nature of the Universe*

Wheelwright, *The Presocratics*
 Black, *Lectures on the Elements of Chemistry*
 Lavoisier, *Memoir on the Calcination of Tin . . . , Elements of Chemistry* (selections)
 Macquer, excerpts from *A Dictionary of Chemistry, The Theory and Practice of Chemistry*
 Pascal, *Scientific Treatises*
 Priestly, *On Dephlogisticated Air*
 Stahl, excerpts from *On Sulfur*
 Thompson, *Source of the Heat Which is Excited by Friction*
 Du Chatelet, *Dissertation on the Nature and Propagation of Fire*

REQUIRED LAB EXERCISES AND DEMONSTRATIONS:

Air and hydraulic pressure
 Weight of air
 Boyle's law
 Latent heat
 Mechanical equivalent of heat
 "Dephlogistication" (burning) of magnesium
 Specific heats of different elements
 Supercooling
 Calcination of iron

**NATURAL SCIENCES 132:
 EVOLUTION, CLASSIFICATION AND
 ANIMAL BEHAVIOR**

REQUIRED TEXTS:

Lamarck, *Zoological Philosophy*
 Darwin, *Origin of Species, Descent of Man*
 Goodall, *The Chimps of Gombe*
 Lorenz, *On Aggression*
 Tattersall, *Masters of the Planet*
 Aristotle, *On the Soul*
 Cuvier, *Revolutionary Upheavals on the Surface of the Globe*
 Paley, *Natural Theology*

REQUIRED LAB EXERCISES AND DEMONSTRATIONS:

Fastener Lab
 Observing and describing variation in

- » Nature
- » Preserved specimens

 Observing animal behavior (ape or fish, human)
 Dominance lab

**NATURAL SCIENCES 133: CLASSICAL
 PHYSICS, MOTION AND LIGHT**

REQUIRED COURSE MATERIALS:

Galileo, *Dialogues Concerning the Two New Sciences*
 Newton, *Principia: The Central Argument, Opticks*
 Shamos, *Great Experiments in Physics*
 Newton, *Newton's Philosophy of Nature*

Descartes, *Optics, On Light, On Refraction*
 Huygens, *Treatise On Light*

REQUIRED LAB EXERCISES AND DEMONSTRATIONS:

Repeat Galilean experiments (pendulum, rolling balls, etc.)
 Types and behaviors of waves
 Snell's Law
 Reflection and refraction of light
 Wave tank
 Prisms
 Diffraction of light (one slit and two slits)
 Measurement of distance between rulings in a diffraction grating

**NATURAL SCIENCES 231: ATOMS
 AND ELECTRICITY**

REQUIRED TEXTS:

Shamos, *Great Experiments in Physics*
 Avogadro, *A Manner of Determining the Relative Masses. . .*
 Berzelius, excerpts: *Electrochemical Theory, Chemical Symbols and Formulas*
 Curie, 1911 Nobel Lecture, *On Radioactivity*
 Cannizzaro, *Sketch of a Course of Chemical Philosophy*
 Clausius, *On the Nature of the Motion that We Call Heat*
 Dalton, 1810 extract, *Atomic Principles of Chemistry, Letter to Nicholson, 1808 Extract*
 Dulong, *Atomic Weights and Specific Heat*
 DuFay, *The Two-Fluid Theory of Electricity*
 Franklin, *The One-Fluid Theory of Electricity*
 Faraday, *Decomposition of Tin Chloride, On some Points of Magnetic Philosophy. . .*
 Maxwell, *On Action at A Distance (Faraday's Point of View), On Ether*

REQUIRED LAB EXERCISES AND DEMONSTRATIONS:

Simple quantitative analysis: Percent acid in a mixture by weight using titration
 Coin lab
 Measurements of specific heats of elements
 Atomic motion (TBD)
 Observation of elements and qualitative descriptions of metals and non-metals
 Electrostatics
 Mapping of electromagnetic field
 Measurement of electromagnetic induction
 Precipitation of tin
 The properties of electromagnetic waves

NATURAL SCIENCES 232: TWENTIETH CENTURY REVOLUTIONS IN PHYSICS

REQUIRED TEXTS:

Shamos, *Great Experiments in Physics*
Feynman, *The Character of Physical Law, QED: The Strange Theory of Light and Matter*
Einstein, *Relativity*
Gamow, *Thirty Years that Shook Physics*
Snow, *The Two Cultures*
Planck, *8 Lectures on Modern Physics*
Einstein, *The Photoelectric Effect*
Millikan, *A Direct Photoelectric Determination of Planck's h and The Electron*
Bohr, *The Structure of the Atom*
DeBroglie, *The Initial Idea of Wave Mechanics*
Schrödinger, *Four Lectures on Wave Mechanics, Fundamental Idea of Quantum Mechanics*
Davisson, *Are Electrons Waves?*

REQUIRED LAB EXERCISES AND DEMONSTRATIONS:

Blackbody radiation
Photoelectric effect
Electron diffraction
Mass/charge of electron
Observation of spectral lines
Bragg reflection (with microwaves)

NATURAL SCIENCES 233: MODERN BIOLOGY AND GENETICS

REQUIRED TEXTS:

Mendel, *Experiments in Plant Hybridization*
Hardy, *Hardy–Weinberg Law*
Chetverikov, *On Certain Aspects of the Evolutionary Process* . . .
Dobzhansky, *Genetics and the Origin of Species*
Schrödinger, *What is Life?*
Dyson, *Origins of Life*
Nusslein-Volhard, *Coming to Life*
Crick, *The Structure of the Hereditary Material, On Protein Synthesis*
Selected works on Molecular Biology, The Genetic Code, and Epigenetics

REQUIRED LAB EXERCISES AND DEMONSTRATIONS:

Calculations of population genetics/Punnett squares
Simulation of Dyson's toy model
DNA Extraction
Microscope viewing (mitosis)
Miller experiment

SOCIAL SCIENCES 141: SOCIETY, CULTURE, AND PERSONALITY

REQUIRED TEXTS:

Benedict, *Patterns of Culture*
James, *Psychology: The Briefer Course*
Durkheim, *Suicide*
Freud, *Five Lectures on Psychoanalysis, New Introductory Lecture #XXXI*, and at least one analytic case study
Piaget, *Moral Feelings and Judgments*
Gilligan, *In a Different Voice*

SUGGESTED TEXTS:

Conklin, *Consuming Grief*
Texts on moral development by Kohlberg and Chodorow

SOCIAL SCIENCES 142: THE WESTERN POLITICAL TRADITION

REQUIRED TEXTS:

Plato, *Republic*
Aristotle, *Politics*
Machiavelli, *The Prince*
Hobbes, *Leviathan*
Locke, *Second Treatise on Civil Government*
Rousseau, *Discourse on the Origin of Human Inequality, Social Contract*, and/or selections from *Émile*
Smith, *Wealth of Nations*
Wollstonecraft, *Vindication of the Rights of Women*

SUGGESTED TEXTS:

Aristotle, *Nicomachean Ethics*
Aquinas, selected writings on politics
Montesquieu, *The Spirit of the Laws*
Spinoza, *Theological-Political Treatise*

SOCIAL SCIENCES 143: POLITICAL DEVELOPMENT OF THE UNITED STATES

REQUIRED TEXTS:

American State Papers, including *United States Declaration of Independence*; *United States Constitution*; *The Federalist*; and additional selections from *The People Shall Judge, Volume 1 Part 1*
de Tocqueville, *On Democracy in America*
At least two Supreme Court cases
Selections from Schneir, *Feminism: The Essential Historical Writings*
Douglass, *Story of My Life*
DuBois, *Souls of Black Folk*
King, *Letter from Birmingham Jail*

SUGGESTED TEXTS:

Mann, writings on public education
Thoreau, *Civil Disobedience*
Douglass, *What to the Slave is the Fourth of July?*
Lincoln, selected speeches
Alexander Stephens, *Cornerstone Speech*

SOCIAL SCIENCES 241: MODERN THEORIES OF SOCIETY, POLITICS, AND ECONOMICS

REQUIRED TEXTS:

Hegel, *Phenomenology of Spirit* and/or *Philosophy of Right*
Marx, *Economic and Philosophic Manuscripts of 1844* and *Manifesto of the Communist Party*
Weber, *Protestant Ethic and the Spirit of Capitalism*
Freud, *Civilization and Its Discontents*

SUGGESTED TEXTS:

Marx, selections from one of more of the following works on economics: *Wage Labor and Capital*, *Grundrisse*, or *Capital*; selections from *Theses on Feuerbach* and/or *German Ideology*
Mill, *On Liberty* and/or *On the Subjection of Women*
Marshall, selections from *Principles of Economics*
Selections from Hayek and Keynes on Economics
Galbraith, *The Inevitability of Planning*
Sen, *Equality of What?*

SOCIAL SCIENCES 242: SOCIAL CONSTRUCTION AND SOCIAL REALITY

REQUIRED TEXTS:

Mannheim, *Ideology and Utopia*
Arendt, *The Human Condition*
Foucault, *Discipline and Punish* or *History of Sexuality*
Geertz, *Interpretation of Cultures* or *Local Knowledge*
Berger and Luckmann, *Social Construction of Reality*

SUGGESTED TEXTS:

Huxley, *Brave New World*
LeGuin, *The Dispossessed*
Laing and Esterson, *Sanity, Madness, and the Family*

SOCIAL SCIENCES 243: METHOD AND CRITIQUE IN THE SOCIAL SCIENCES

REQUIRED TEXTS:

Durkheim, *Rules of Sociological Method* and/or *Elementary Forms of Religious Life*

Weber, essays on methodology, preferably including *Objectivity in the Social Sciences* and/or *Social Psychology of World Religions*

de Beauvoir, *The Second Sex*

Selections on feminism and methodology, including at least two essays by Haraway, Harding, and Flax and/or selections from Keller, *Feminism and Science*

Milgram, *Obedience to Authority*

SUGGESTED TEXTS:

Freire, *Pedagogy of the Oppressed*

Zimbardo, *Stanford Prison Experiment: A Simulation Study of the Psychology of Imprisonment*

Jacobs, *The Death and Life of Great American Cities*

Ghandi, selected writings

INTEGRATIVE STUDIES 451: ANCIENT MESOPOTAMIA TO CLASSICAL ATHENS

REQUIRED TEXTS:

The Epic of Gilgamesh

Inanna, Queen of Heaven and Earth

Hebrew Bible: Exodus, Song of Songs

Homer, *The Iliad*

Sappho, poetry

Aeschylus, *Agamemnon and Eumenides*

Selections from *Herodotus* and/or *Thucydides*

Aristotle, *On the Heavens*

SUGGESTED TEXTS:

Other Biblical selections not read elsewhere in the core

Hesiod, *Theogony* or *Works and Days*

Aeschylus, *Libation Bearers*

Plato, *Republic* (selections not used elsewhere in core)

Aristotle, *Nicomachean Ethics* (selections not used elsewhere in the core)

Relevant scholarly works, such as the following:

- » Jan Assmann, *The Price of Monotheism*
- » Judith Plaskow, *Standing Again at Sinai*
- » Nicole Loraux, *The Divided City*
- » Simone Weil, "The Iliad" or *The Poem of Force*

INTEGRATIVE STUDIES 452: CLASSICAL ROME TO MIDDLE AGES

REQUIRED TEXTS:

Virgil, *Aeneid*

Selections from at least one Roman historian (e.g., Tacitus, Suetonius, Josephus)

New Testament: Gospel of Luke

Ptolemy, *Almagest*

Augustine, *City of God*

Selections from the Qur'an, including Surah 2 (*The Cow*)

At least one work of Islamic theology or philosophy (such as al-Ghazali, *Deliverance from Error* or Ibn Tufayl, *Hayy ibn Yaqzan*)

The Lais of Marie de France

Dante, *Inferno*

SUGGESTED TEXTS:

Works of Roman Stoicism

New Testament: *Acts of the Apostles* or other texts not assigned elsewhere in the core

The Martyrdom of Sts. Perpetua and Felicity

A work of medieval mysticism not used elsewhere in the core

ibn Ishaq, *The Life of Muhammad*

Bede, *Ecclesiastical History of the English People*

Beowulf or another work of medieval imaginative literature

Dante, *Purgatorio* and/or *Paradiso*

Relevant scholarly works, such as the following:

- » Theodore W. Jennings, *Outlaw Justice*
- » Asma Barlas, *Believing Women in Islam*
- » Carolyn Walker Bynum, *The Body of Christ in the Later Middle Ages*
- » Ernst Kantorowicz, *Dante's Two Suns*" and/or *Pro Patria Mori in Medieval Political Thought*

INTEGRATIVE STUDIES 453: RENAISSANCE, REFORMATION AND ENLIGHTENMENT

REQUIRED TEXTS:

The Arabian Nights

Geoffrey Chaucer, *Canterbury Tales*

Margery Kempe, *The Book of Margery Kempe*

Christine de Pizan, *Treasure of the City of Ladies*

Selections from Luther

Copernicus, *On the Revolutions of the Heavenly Spheres*

Galileo, *The Starry Messenger*

Kepler, *The Epitome of Copernican Astronomy*

John Milton, *Paradise Lost*

Aphra Behn, *Oroonoko*

SUGGESTED TEXTS:

Boccaccio, *Decameron*

Calvin, selections

Cervantes, *Don Quixote*

Erasmus, *In Praise of Folly* or writings against Luther on free will

Galileo, *Concerning the Use of Biblical Quotations in Matters of Science*

Gibbon, *Decline and Fall of the Roman Empire*

Leibniz, *Monadology* or *Theodicy*

Moliere, any play

Montaigne, *Essays*

More, *Utopia*

Petrarch, poetry

Pico, *Oration on the Dignity of Man*

Rabelais, *Gargantua and Pantagruel*

Racine, any play

Voltaire, *Candide*

Aimé Césaire, *A Tempest*

Relevant scholarly works, such as the following:

- » Eduardo Viveiros de Castro, *The Inconstancy of the Native Soul*
- » Silvia Federici, *Caliban and the Witch*

INTEGRATIVE STUDIES 454: ROMANTICISM TO THE WORLD TODAY

REQUIRED TEXTS:

J. W. von Goethe, *Faust*, pt. I

David Hume, *Dialogues Concerning Natural Religion*

Immanuel Kant, *Groundwork of the Metaphysics of Morals*

A significant novel by a woman, such as: George Eliot, *Adam Bede*, Djuna Barnes, *Nightwood*, Virginia Woolf, *To the Lighthouse*

Modern visual art/architecture, with relevant readings

A significant work of music, with relevant readings

A work on contemporary cosmology, such as the following:

- » Hubble, *Explorations in Space*
- » Riess and Turner, *The Expanding Universe*

A work on 20th century history

SUGGESTED TEXTS:

Rousseau, any work that is not required in Social Sciences 2

Goethe, *Faust*, Part II

Hegel, *Introduction to Philosophy of History*

Nietzsche, *Use and Abuse of History*

Engels, *Condition of the Working Class in England*

Dickens, *Hard Times*

Marx, *Eighteenth Brumaire*

Primo Levi, *Survival in Auschwitz* (also known as *If This is a Man*)

Hannah Arendt, *Eichmann in Jerusalem*

A significant graphic novel or film

Relevant scholarly works, such as the following:

- » C.L.R. James, *The Black Jacobins*
- » Susan Buck-Morss, *Hegel and Haiti*
- » Groys, *The Total Art of Stalinism*

Poems by William Blake, John Keats, Emily Dickinson, Walt Whitman, Wislawa Szymborska