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
Velázquez, 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, Odysses’ 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 Epanumity
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
Nicogenus 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)
Loebachevsky, 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: ATOMS AND ELECTRICITY

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 metal and non-metal behavior
- Measurement of distance between rulings in a diffraction grating

NATURAL SCIENCES 132: EVOLUTION, CLASSIFICATION AND ANIMAL BEHAVIOR

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

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

NATURAL SCIENCES 133: CLASICAL PHYSICS, MOTION AND LIGHT

REQUIRED COURSE MATERIALS:
Galileo, Dialogue Concerning the Two New Sciences
Newton, Principia: The Central Argument, Opticks
Shamos, Great Experiments in Physics
Newton, Newton’s Philosophy of Nature

REQUIRED TEXTS:
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

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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 #XXX, 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
INTEGRATIVE STUDIES 452: INTEGRATIVE STUDIES 452:

REQUIRED TEXTS:
- Aristotle, *Theogony*
- Hesiod, *Other Biblical selections not read elsewhere in the core*

SUGGESTED TEXTS:
- Tacitus, Seutonius, Josephus
- Selections from at least one Roman historian (e.g., *Aeneid* by Virgil, any play)

INTEGRATIVE STUDIES 453:

REQUIRED TEXTS:
- Plato, *Republic*
- Aeschylus, *Agamemnon and Eumenides*

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 454:

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*
- *Pico, Oration on the Dignity of Man*

SUGGESTED TEXTS:
- *Walter Sickert, The Cow*
- *Oscar Wilde, The Importance of Being Earnest*
- *Virginia Woolf, To the Lighthouse*

INTEGRATIVE STUDIES 455:

REQUIRED TEXTS:
- *Plato, Alcibiades*
- *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)*

SUGGESTED TEXTS:
- *The Martyrdom of Sts. Perpetua and Felicity*
- *Selections on feminism and methodology, including at least two essays by Haraway, Harding, and Flax and/or selections from Keller, Feminism and Science*
- *Silvia Federici, Caliban and the Witch*

INTEGRATIVE STUDIES 456:

REQUIRED TEXTS:
- *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)*

SUGGESTED TEXTS:
- *The Martyrdom of Sts. Perpetua and Felicity*
- *New Testament: Acts of the Apostles or other texts not assigned elsewhere in the core*
- *ibn Ishaq, Deliverance*
- *Selections from the Qur’an, including Surah 2*

INTEGRATIVE STUDIES 457:

REQUIRED TEXTS:
- *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*

SUGGESTED TEXTS:
- *Relevant works in social psychology, with relevant readings*
- *A significant work of music, with relevant readings*
- *A work on contemporary cosmology, such as the following:*
  - *Hubble, Explorations in Space*
  - *Ries and Turner, The Expanding Universe*

INTEGRATIVE STUDIES 458:

REQUIRED 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*

SUGGESTED TEXTS:
- *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)*

INTEGRATIVE STUDIES 459:

REQUIRED TEXTS:
- *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)*

SUGGESTED TEXTS:
- *The Martyrdom of Sts. Perpetua and Felicity*
- *New Testament: Acts of the Apostles or other texts not assigned elsewhere in the core*
- *ibn Ishaq, Deliverance*
- *Selections from the Qur’an, including Surah 2*

INTEGRATIVE STUDIES 460:

REQUIRED TEXTS:
- *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)*

SUGGESTED TEXTS:
- *The Martyrdom of Sts. Perpetua and Felicity*
- *New Testament: Acts of the Apostles or other texts not assigned elsewhere in the core*
- *ibn Ishaq, Deliverance*
- *Selections from the Qur’an, including Surah 2*

INTEGRATIVE STUDIES 461:

REQUIRED TEXTS:
- *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*

SUGGESTED TEXTS:
- *Relevant works in social psychology, with relevant readings*
- *A significant work of music, with relevant readings*
- *A work on contemporary cosmology, such as the following:*
  - *Hubble, Explorations in Space*
  - *Ries and Turner, The Expanding Universe*