RELIGIOUS ETHICS IV
RELIGION AND THE SCIENCES

This exam includes three required parts (I-III) about the philosophy and history of science, ethics for scientists and engineers, and how scientific authority and information may relate to religious ethics. These sections provide background material to ground the study of ethics related to a particular realm of science. Students, in consultation with their advisor, choose to focus on one of the three sections in part IV (environmental, biomedical, or technological ethics) in order to specialize in the ethics related to a particular realm of science.

Part I: Philosophy and History of Science

William Broad and Nicholas Wade, Betrayers of the Truth
Pierre Duhem, The Aim and Structure of Physical Theory. Part II: Chapters 4-7
Paul Feyerabend, Against Method. 3rd ed.
Clarence J. Glacken, Traces on the Rhodian Shore: Nature and Culture in Western Thought from Ancient Times to the End of the Eighteenth Century
Bruno Latour, Science in Action
———. Science and Values: The Aims of Science and Their Role in Scientific Debate
———. Reinventing Eden: The Fate of Nature in Western Culture
Alfred North Whitehead, Science and the Modern World
Part II: Ethics of Scientists and Engineers / Science Ethics

Accreditation Board for Engineering and Technology, “Code of Ethics of Engineers.”
http://ethics.iiit.edu/ecodes/node/3225
http://ethics.iiit.edu/ecodes/node/6005
American Geosciences Institute, “Guidelines for Ethical Professional Conduct.”
http://ethics.iiit.edu/ecodes/node/5851
American Geosciences Institute, “Development of the 2015 American Geosciences Institute
Guidelines for Ethical Professional Conduct: History, Context, and Intended Use.”
American Medical Association, “Code of Medical Ethics (latest version).”
Mary Arquette, Maxine Cole, Katsi Cook, Brenda LaFrance, Margaret Peters, James Ransom,
Elvera Sargent, Vivian Smoke, and Arlene Stairs, "Holistic Risk-Based Environmental
Decision Making: A Native Perspective." Environmental Health Perspectives 110, no.
supplement 2 (April 2002): 259-64.
Merry Bullock and Sangeeta Panicker, “Ethics for All: Differences Across Scientific Society
Melissa Checker, “‘But I Know It’s True’: Environmental Risk Assessment, Justice, and
Margaret Coady and Sidney Bloch eds., Codes of Ethics and the Professions
Michael Davis, "Thinking Like an Engineer: The Place of a Code of Ethics in the
Charles E. Harris, Michael S. Pritchard, Michael J. Rabins, Ray James, Elaine Englehardt,
Engineering Ethics: Concepts and Cases
Albert Jonsen, The Birth of Bioethics
Andre Nollkaemper, “What You Risk Reveals What You Value, and Other Dilemmas
Encountered in the Legal Assaults on Risks.” In The Precautionary Principle and
International Law: The Challenge of Implementation, edited by David Freestone and
Charles Perrow, Normal Accidents: Living with High-Risk Technologies
Nicholas Rescher, Risk: A Philosophical Introduction to the Theory of Risk Evaluation and
Management
Mark Sagoff, “Technological Risk: A Budget of Distinctions.” In The Environment in Question:
Ethics and Global Issues, edited by David E. Cooper and Joy A. Palmer, 194-211.
Paul Slovic, The Perception of Risk
Chauncey Starr, “Social Benefits Versus Technological Risk.” In Readings in Risk, edited by

Part III: How Religious Ethics and Scientific Authority Relate

James M. Gustafson, Intersections: Science, Theology, Ethics
Seyyed Hossein Nasr, The Need for a Sacred Science
Holmes Rolston III, Genes, Genesis and God: Values and their Origins in Natural and Human History
Lisa H. Sideris, Environmental Ethics, Ecological Theology, and Natural Selection

Part IV: Specialty Area:

For this portion of the exam, students, in consultation with their advisor, choose one section of readings (environmental, medical, or technological ethics) that includes the substance and theory of ethics pertinent to their area of interest.

A: Environmental Ethics:

1. Are religious traditions responsible for environmental crises?
   Michael S. Northcott, A Political Theology of Climate Change
   There is an enormous literature responding to Lynn White Jr.’s article. Read some of it.

2. To what degree can religions address environmental crises?
   David L. Haberman, River of Love in an Age of Pollution: The Yamuna River of Northern
India
Shepard Krech III, The Ecological Indian: Myth and History

3. A Biblical Environmental Ethic?

4. Does the natural world have intrinsic value in addition to instrumental value to humans? What, if anything, does your answer to this question imply about human responsibility to the non-human world?
5. What point of view (anthropocentrism, biocentrism, theocentrism) should ground an environmental ethic?


Aldo Leopold, A Sand County Almanac: With Essays on Conservation


John Passmore Man’s Responsibility for Nature


Richard Sylvan and David Bennett, The Greening of Ethics

6. Other key texts:

J. Baird Callicott, Thinking Like a Planet

David E. Cooper, Buddhism, Virtue, and Environment

Pope Francis, "Laudato Si’"

Stephen M. Gardiner, A Perfect Moral Storm: The Ethical Tragedy of Climate Change

Dale Jamieson, Reason in a Dark Time: Why the Struggle against Climate Change Failed -- and What It Means for Our Future

Willis Jenkins, The Future of Ethics: Sustainability, Social Justice, and Religious Creativity
Bryan G. Norton, *Sustainability: A Philosophy of Adaptive Ecosystem Management*
Larry Rasmussen, *Earth Community Earth Ethics*
Holmes Rolston III, *Philosophy Gone Wild: Environmental Ethics*

B. Medical Ethics

Tom L. Beauchamp and James F. Childress, *Principles of Biomedical Ethics*, 7th ed.
Norman Daniels, *Just Health Care*
Anne Fadiman, *The Spirit Catches You and You Fall Down: A Hmong Child, Her American Doctors, and the Collision of Two Cultures*
Paul Farmer, *Pathologies of Power: Health, Human Rights, and the New War on the Poor*
Sherine Hamdy, *Our Bodies Belong to God: Organ Transplants, Islam, and the Struggle for Human Freedom in Egypt*
Hippocrates, *The Oath, Precepts, Decorum*
Leon Kass, *Towards a More Natural Science*
William F. May, *The Patient’s Ordeal*
Richard McCormick, *How Brave a New World?*
Edmund Pellegrino & David Thomasma, *Virtues in Medical Practice*
Thomas Percival, *Medical Ethics*
Farhat Moazam, *Bioethics and Organ Transplantation in a Muslim Society: A Study in Culture, Ethnography, and Religion*
Paul Ramsey, *The Patient as Person*
Robert Veatch, *A Theory of Medical Ethics*
Susan Wolf, ed., *Feminism and Bioethics: Beyond Reproduction*
Noam Zohar, *Alternatives in Jewish Bioethics*

C. Ethics and Technology

*(Note: Texts can be added with respect to the specific form of technology a student is exploring. Such addition must be in consultation with the Religious Ethics Area Faculty.)*

Ian Barbour, *Ethics in an Age of Technology*
Brian Brock, *Christian Ethics in a Technological Age*
Heidi Campbell *When Religion Meets New Media*
Ron Cole-Turner, *Transhumanism and Transcendence: Christian Hope in an Age of Technological Enhancement*
_____. Beyond Cloning: Religion and the Remaking of Humanity
Paul T. Durbin, ed. Technology and Responsibility
Francis Fukuyama, Our Posthuman Future: Consequences of the Biotechnical Revolution
Hans Jonas, The Imperative of Responsibility
______. On Technology, Medicine and Ethics
Donna Haraway, Simians, Cyborgs, and Women: The Reinvention of Nature
Martin Heidegger, The Question Concerning Technology
Jürgen Habermas, The Future of Human Nature
James Hughes, Citizen Cyborg: Why Democratic Societies must Respond to the Redesigned Human Future
David Kaplan, Readings in the Philosophy of Technology (latest edition).
Gerald P. McKenny, To Relieve the Human Condition: Bioethics, Technology, and the Body
Mary Midgley, The Myths We Live By
David F. Noble, The Religion of Technology: The Divinity of Man and the Spirit of Invention
Paul Ramsey, Fabricated Man: The Ethics of Genetic Control
Egbert Schuurman, Technology and the Future: A Philosophical Challenge
______. Perspectives on Technology and Culture
______. Faith and Hope in Technology
______. The Challenge of Islam’s Critique of Technology
Herman T. Tavani, Ethics and Technology: Controversies, Questions, and Strategies for Ethical Computing