Christianity. Interaction between religion and art as ways of obtaining and sharing religious knowledge. Pervasive spiritual and cosmological themes.

310. Judaism
Fall. 4(4-0)
R: Not open to freshmen.


315. Modern Jewish Thought
Spring of even-numbered years. 3(3-0)
P: REL 310 or approval of department. R: Not open to freshmen and sophomores.

Representative Jewish thought from the Enlightenment to the present. Authors such as Moses Mendelssohn, Abraham Geiger, Hermann Cohen, Franz Rosenzweig, Ahad Ha-Am, Martin Buber, Mordecai Kaplan, A. I. Heschel, and Emil Fackenheim.

411. Modern Jewish Thought
Spring of odd-numbered years. 3(3-0)
P: REL 310 or approval of department. R: Not open to freshmen and sophomores.

The historical setting and types and meaning of the text of the Hebrew Bible (Christian Old Testament) explored through various techniques of historical, literary, and textual analysis.

418. Studies in Ancient Near Eastern Religions (MTC)
Fall. Spring. 3(3-0) A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.

Interdisciplinary study of specific topics in the religious thought of the Near East and Mediterranean between 3000 BCE and 700 CE.

420. New Testament
Spring. 3(3-0)
R: Not open to freshmen and sophomores.

The historical setting and types and meaning of the text of the New Testament explored through various techniques of historical, literary, and textual analysis.

431. Muhammad and the Qur'an
Spring of odd-numbered years. 3(3-0)
P: REL 330 or approval of department. R: Not open to freshmen and sophomores.

The Qur'an as a historical source. Origin, compilation, contents, and arrangements of the Qur'an. Forms of the Qur'an: recitation, scripture, calligraphy, theological concept.

440. Topics in South Asian Religions (MTC)
Spring. 3(3-0)
A student may earn a maximum of 6 credits in all enrollments for this course.

R: Not open to freshmen and sophomores.

Topics such as Hindu tantric mysticism or Buddhist philosophical schools.

470. Religious and Secular Cosmologies
Fall. 3(3-0)
R: Not open to freshmen or sophomores.

Cosmological contents of religions. Religious questions raised by secular cosmologies.
3.25. Applications of Survey Research
Fall. 3(3-0) P: RD 200; SST 200.
Design and use of survey procedures in organizational community and research settings.

3.26. Land Use and Natural Resource Management
Spring. 3(3-0) P: RD 200; EC 201 or EC 202.

3.27. Resource Management and Planning
Fall. 3(3-0) P: RD 200, ZOL 355.

3.28. Introduction to Waste Management
Fall. 3(3-0) Interdepartmental with Fisheries and Wildlife.
P: RD 200, RD 320.
Waste management definitions, techniques, technologies, and strategies. Integrative approach to waste management as an environmental, social, and political subject.

3.29. State Environmental Law
Spring. 3(3-0) P: RD 200, RD 320.

3.30. Leadership Skills for Resource Development Practice
Fall. 3(3-0) P: RD 200.
Concepts and techniques for resource development practitioners.

4.01. Forest Hydrology
Science and technology of the hydrologic cycle and water resources in forest, wildland, wetland, and rural watersheds.

4.02. Introduction to Impact Assessment
Fall. 4(3-2) P: RD 200, SST 200, ZOL 355.
Environmental, social, and economic impact assessment. Risk analysis, technology assessment, project management, and data collection and use.

4.03. Geographical Information Systems in Natural Resource Management
Spring. 4 credits. Interdepartmental with Fisheries and Wildlife; Geography; Forestry; Agricultural Engineering; Park, Recreation and Tourism Resources; and Biosystems Engineering. Administered by Fisheries and Wildlife. P: GEO 221.
The application of geographic information systems, remote sensing, and global positioning systems to integrated planning and management for fish, wildlife, and related resources.

4.04. Waste Management Planning
Fall. 4(3-2) P: RD 200, RD 320.
Assessment of procedures and techniques. Alternative solutions are explored through simulation. Technological and public policy issues explored by using a computer model. Design of implementation strategies.

4.05. Law and Social Change
Spring. 3(3-0) Interdepartmental with Sociology and Public Resource Management. P: GBL 295. R: Not open to freshmen.
Function of law in a modern society. Concepts of power, public regulation, civil rights, and property rights. Limits on freedom.

4.06. Resource Development Policy Process in Michigan
Spring. 3(3-0) Interdepartmental with Public Resource Management. P: RD 200; PRM 100 or PLS 301 or PLS 324.
Public policy formation related to environmental and economic development issues at state and community levels. Observation and analysis of actual proceedings. Field trips required.

4.07. Concepts of Biological Information Systems
Spring. 3(3-0) Interdepartmental with Entomology. Administered by Entomology. P: RD 200, RD 320, RD 322.
Concepts and techniques for biological information systems. Methods of managing, manipulating, and analyzing data. Use of computer technology.

4.08. Environmental Issues and Public Policy
Spring. 3(3-0) Interdepartmental with Zoology. Administered by Zoology. P: RD 200, RD 320, RD 322.
The interrelationship of science and public policy in resolving environmental issues. Technical, social, economic, and legal influences. Case study approach.

4.09. Resource and Environmental Economics
Spring. 3(3-0) Interdepartmental with Public Resource Management; Park, Recreation and Tourism Resources; and Biosystems Engineering. P: RD 200; EC 201 or EC 202 or PRM 201 or RD 302.

4.10. Regional Economics
Fall. 4(3-2) Interdepartmental with Public Resource Management and Economics. P: RD 200; EC 201 or RD 490. R: Not open to freshmen or sophomores.
Location decisions of firms and households. Relevant government policies. Applications of regional analysis to industrial, regional, and community development.
464. Natural Resource Economics and Social Science (W)
Fall. 3 credits. Interdepartmental with Forestry; Park, Recreation and Tourism Resources; and Fisheries and Wildlife. Administered by Forestry. P: EC 201 or EC 202. R: Not open to freshmen and sophomores. Completion of Tier 1 writing requirement. Application of economic and social science principles and techniques to production and consumption of natural resources. Benefit-cost analysis. Regional impact analysis. Social impact assessment.

465. Ecological Risk Assessment
Spring. 3 credits. Interdepartmental with Fisheries and Wildlife. Administered by Fisheries and Wildlife. P: CEM 143, CEM 161, ZOL 355; FW 324 or STT 200 or STT 201. Ecotoxicology. Monitoring and modeling the fate of toxins in ecosystems. Dose response relationships. State and federal regulations related to environmental contaminants.

466. Natural Resources Planning and Policy
Spring. 3 credits. Interdepartmental with Forestry; Fisheries and Wildlife; Park, Recreation and Tourism Resources, and Environmental Science. R: Open only to seniors and graduate students in Forestry; Fisheries and Wildlife; Park, Recreation and Tourism Resources; and Resource Development. Approval of department; application required. Scientific, environmental, social, and institutional factors affecting planning and policy-making. Focus on ecosystem-based planning and policy issues through development of a multiple-use plan. Case studies.

470. Theory and Practice in Community and Economic Development
Fall. 3 credits. Interdepartmental with Sociology and Public Resource Management. P: EC 201 or EC 202; RD 200 or approval of department. Concepts, principles, models, and skills for community and economic development. Community participation in local development initiatives.

490. Independent Study
Fall, Spring. Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Not open to freshmen and sophomores. Approval of department. Projects coordinated by Forestry. Individual supervised study of selected topics.

491. Special Topics in Resource Development
Fall, Spring. Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Not open to freshmen and sophomores. Selected issues in resource development derived from current resource policy changes, or other emerging topics of interest.

495. Senior Seminar
Spring. 2(2-0)
Fall, Spring. Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course.

499. Senior Thesis Research
Fall, Spring. Summer. 3 to 6 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to seniors in the Department of Resource Development. Supervised research option for satisfying capstone experience requirement.

801. Resource Development Policy
Fall. 3(0-0)
Environmenal policies and programs affecting resource development. Institutional arrangements and the role of market and non-market approaches. Case studies from different societies.

802. Organizational Issues in Resource Development
Spring. 3(0-0)
Application of organizational models to management and leadership issues in natural resource, environmental, and community development agencies.

803. Research Processes in Natural Resources
Fall. 3(0-0) Interdepartmental with Forestry. Research planning and implementation. Structure of research organizations. Applications of research results.

810. Institutional and Behavioral Economics
Fall. 3(0-0) Interdepartmental with Agricultural Economics and Economics. Administered by Agricultural Economics. Relationships among institutions, individual and collective actions, and economic performance. Public choice, property rights, and behavioral theories of firms and bureaucracies.

Fall. 3(0-0)

824. Watershed Management
Spring. 3(0-0)
P: RD 224 or approval of department. Dynamics of physical, social, economic, political and institutional forces applied to watershed planning and management.

825. Planning for Sustainable Development
Fall. 3(0-0)

826. International Development and Sustainability
Spring of odd-numbered years. 3(0-0) Interdepartmental with Anthropology and Political Science. Environmental, economic, political, legal, management, and cultural components of sustainable development.

828. Attitudes, Behavior and Environmental Sustainability
Spring. 3(0-0)
Environmental quality as affected by personal and collective behavior. Underlying social values and impact of collective attitudes on public policy.

829. The Economics of Environmental Resources
Fall. 3(0-0) Interdepartmental with Agricultural Economics; Forestry; Park, Recreation and Tourism Resources; and Economics. Administered by Agricultural Economics. Economic principles related to environmental conflicts and public policy alternatives. Applications to water quality, land use, conservation, development, and global environmental issues.

831. Role of the Expert Witness
Spring of even-numbered years. 3(0-0)
Rules of procedure regarding pretrial discovery and the rules of evidence including depositions, use of tests and experiments, and issues involving hearsay.

832. Environmental and Natural Resource Law
Fall. 3(0-0) Interdepartmental with Agricultural Economics, Forestry, Crop and Soil Sciences, and Geography. P: RD 450. Origin and development of environmental law. Theories of power, jurisdiction, sovereignty, property interests, pollution, and other bases for legal controls of natural resources. Common law and constitutional limitations on governmental power.

836. Legal Aspects of Environmental Regulation
Fall. 3(0-0)

837. Water Law
Spring. 3(0-0) Interdepartmental with Agricultural Economics and Forestry. P: RD 430. Legal principles applicable to surface water and groundwater, private and public water rights, and controls over water resources. Cases, statutes, and administrative procedures.

838. Land Use Law
Spring. 3(0-0) Interdepartmental with Agricultural Economics, Forestry, and Urban Planning. P: RD 430. Public and private land use controls in the U.S. Civil rights, housing, energy problems, growth management, waste management, and land conservation. Cases, statutes and other regulations.

843. Comparative Resource and Environmental Policy
Spring. 3(0-0)
P: RD 801, RD 802. Comparisons of natural resource and environmental policies in industrialized and nonindustrialized societies. Roles of differing social, legal, and political systems.

852. Systems Modeling and Simulation
Fall of even-numbered years. 3 credits. Interdepartmental with Fisheries and Wildlife, Forestry, and Agricultural Engineering. Administered by Fisheries and Wildlife. P: STT 422 or STT 442 or STT 464 or GEO 463. General systems theory and concepts. Modeling and simulation methods. Applications of systems approach and techniques to natural resource management, and to ecological and agricultural research.

Spring of odd-numbered years. 3 credits. Interdepartmental with Fisheries and Wildlife, Forestry, Agricultural Engineering, and Zoology. Administered by Fisheries and Wildlife. P: FW 820 or BE 496 or ZOL 851 or approval of department. R: Open only to seniors and graduate students. Mathematical models for evaluating resource management strategies. Stochastic and deterministic simulation for optimization. System control structures. Team modelling approach.