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

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. Perspectives from phenomenology and anthropology of religion.

471 The Ritual Process  
Spring. 3(3-0) R: Not open to freshmen or sophomores.  
Definitions of ritual. Aspects of ritual, such as repetitiveness and drama. Generic forms of ritual including passage rites, renewal rites, liminality, sacrifice, taboo, and divination. Experience of ritual and its power to inform and transform the participant.

475 Anthropological Approaches to Religion  
Fall. 3(3-0) R: Not open to freshmen or sophomores.  
Religion and language as distinguishing human traits. The capacity to create symbols and the power of symbols. Early explanations of the origins of religion. Later functional appreciations of religion based on field studies. Leading theorists from different schools of religious studies.

480 Comparative Studies in Religion  
Fall, Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: Not open to freshmen or sophomores.  
Multidisciplinary topics such as patterns in comparative religion, comparative mysticism, or comparative mythology.

490 Independent Study  
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.  
Special projects, directed reading, and research arranged by an individual graduate student and a faculty member in areas supplementing regular course offerings.

491 Special Topics in Religious Studies  
Fall, Spring. 3(3-0) A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.  
Special topics supplementing regular course offerings, proposed by faculty on a group study basis.

499 Senior Thesis Research (W)  
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P:M: Completion of Tier I writing requirement. R: Approval of department.  
Individual research project supervised by a faculty member that demonstrates the student's ability to do independent research and submit or present a major paper.

302 Natural Resource Issues  
Fall, Spring. 3(3-0) P:M: (EC 201 or EC 202) RB: (RD 200) R: Open only to sophomores or juniors or seniors in the Public Resource Management or Environmental Studies and Applications majors.  

313 Grantwriting and Fund Development  
Fall. 3(3-0)  
Theoretical and practical background for proposal writing. Program and strategic planning. Fund-raising and institutional advancement.

314 Environmental Assessment of Land Uses  
Fall. 3(3-0) RB: (RD 200)  
Environmental issues related to land-use. Environmental assessment for land-use decisions. Data acquisition and processing techniques. Spatial analysis methods.

315 Applications of Survey Research  
Fall. 3(3-0) R: Open only to juniors or seniors.  
Design and use of survey procedures in organizational, community and research settings.

316 Land Use and Natural Resource Management  
Spring. 3(3-0) RB: (RD 200)  

320 Resource Management and Planning  
Fall, Spring. 3(3-0) R: Open only to sophomores or juniors or seniors.  

324 Water Resource Management  
Spring. 3(3-0) RB: (RD 200)  
Interface between the hydrologic cycle and human factors, and resulting environmental consequences. Economic, administrative, policy, and political factors.

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

336 State Environmental Law  
Spring. 3(3-0) RB: (RD 200 and RD 301)  
415 Environmental Impact Assessment  
Fall. 4(3-2) P:M. (ZOL 355 or concurrently) and (STT 200 or concurrently or STT 201 or concurrently or FW 324 or concurrently) Environmental, social, and economic impact assessment. Risk analysis, technology assessment, project management, and data collection and use.

419 Applications of Geographic Information Systems to Natural Resources Management  
Spring. 4(2-4) Interdepartmental with Fisheries and Wildlife; Forestry; Geography; Park, Recreation and Tourism Resources; Biosystems Engineering. Administered by Department of Fisheries and Wildlife. RB: (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.

430 Law and Resources  
Fall. 3(3-0) Interdepartmental with Forestry; Environmental Economics and Policy. RB: (RD 301) R: Open only to juniors or seniors or graduate students. SA: PRM 430 Legal principles applied to natural resource use. Sovereignty, property rights, land and water use, jurisdiction, public trust doctrine, fish and game law, mineral rights, and eminent domain. Case and statutory law analysis.

433 Law and Social Change  
Spring. 3(3-0) Interdepartmental with Environmental Economics and Policy; Sociology. RB: (RD 301 or RD 336 or GBL 395) R: Open only to juniors or seniors. SA: PRM 430 Function of law in a modern society. Concepts of power, public regulation, civil rights, and property rights. Limits on freedom.

440 The Resource Development Policy Process in Michigan  
Spring. 3(3-0) Interdepartmental with Environmental Economics and Policy. RB: (RD 200 or EEP 201 or PLS 100 or PLS 301 or PLS 324) SA: PRM 440 Public policy formation related to environmental and economic development issues at state and community levels. Observation and analysis of actual proceedings. Field trips required.

442 Concepts of Biological Information Systems  
Spring. 3(3-0) Interdepartmental with Entomology. Administered by Department of Entomology. R: Open only to seniors or graduate students. Systems approach to managing biological information using computer technology.

444 Pesticides, People and Politics  
Fall. 3(3-0) RB: Completion of Tier I writing requirement. One course in a biological or physical or social science. Comparative state, national, and international policy issues and politics related to pesticide regulations and use in industrialized and non-industrialized countries.

446 Environmental Issues and Public Policy  
Fall. Spring. 3(3-0) Interdepartmental with Zoology. Administered by Department of Zoology. R: Not open to freshmen or sophomores. Interrelationship of science and public policy in resolving environmental issues. Technical, social, economic, and legal influences. Case study approach.

452 Watershed Concepts  
Fall, Spring, Summer. 3(3-0) Interdepartmental with Biosystems Engineering; Crop and Soil Sciences; Forestry; Fisheries and Wildlife. P:M. (RD 324 and ZOL 355) RB: organic chemistry Watershed hydrology and management. The hydrologic cycle, water quality, aquatic ecosystems and social systems. Laws and institutions for managing water resources.

456 Natural Resource Economics  
Spring. 3(3-0) Interdepartmental with Public Resource Management; Park, Recreation and Tourism Resources; Biosystems Engineering. P:M. (EC 201) and (RD 302 or EEP 255) Economic framework for analyzing natural resource management decisions. Spatial and inter-temporal allocation of renewable and nonrenewable resources. Special emphasis on institutions, externalities, and public interests in resource management.

464 Natural Resource Economics and Social Science (W)  
Fall. 3(2-2) Interdepartmental with Forestry; Fisheries and Wildlife; Park, Recreation and Tourism Resources. Administered by Department of Forestry. P:M. (EC 201 or EC 202) and completion of Tier I writing requirement. R: Not open to freshmen or sophomores. 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.

466 Natural Resources Planning and Policy  
Spring. 3(2-2) Interdepartmental with Forestry; Fisheries and Wildlife; Park, Recreation and Tourism Resources. Administered by Department of Forestry. R: Open only to seniors or graduate students in the Department of Forestry or Department of Fisheries and Wildlife or Department of Park, Recreation and Tourism Resources or Department of Resource Development. 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(3-0) Interdepartmental with Environmental Economics and Policy; Sociology. P:M. (EC 201 or EC 202) SA: PRM 470 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: Open only to juniors or seniors. Approval of department; application required. 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: Open only to juniors or seniors. Selected issues in resource development derived from current resource policy changes, or other emerging topics of interest.

493 Professional Internship in Resource Development  
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to juniors or seniors in the Department of Resource Development. Approval of department; application required. A student may earn a maximum of 6 credits in all enrollments for any or all of these courses: ABM 493, AEE 493, ANR 493, ANS 493, CSS 493, EEP 493, FIM 493, FW 493, HRT 493, PKG 493, PLP 493, PRR 493, and RD 493. Supervised professional experiences in agencies and businesses related to resource development.

495 Senior Seminar  
Spring. 2(2-0) R: Open only to seniors in the Environmental Studies and Applications major. Examples and practice in directing change and resolving issues by anticipating resource problems. Analysis and application of policy alternatives. Preparation of position papers.

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

801 Foundations of Resource Development  
Fall. 3(3-0) Exploration of the philosophical and ethical considerations central to lifelong critical thinking and learning concerning sustainability and development.

802 Organizational Issues in Resource Development  
Spring. 3(3-0) 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(3-0) SA: FOR 803 Research planning and implementation. Structure of research organizations. Applications of research results.
Resource Development—RD

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

812 Qualitative Research Techniques for Resource Development
Spring. 3(3-0)
Design of qualitative research projects. Collection and analysis of qualitative data. Informal and semi-structured interviewing, observation, focus groups, free lists and pile sorts. Use of qualitative methods in mixed methods studies.

823 Community-Based Natural Resource Management in Developing Countries
Spring. 3(3-0) RB: Previous experience or course work related to at least one of the following: developing countries, natural resource management, community development. Community-based management of natural resources in developing countries. Roles of property rights, collective action, and the quality of local governance in promoting productivity, conservation, and equitable distribution of benefits.

824 Watershed Management
Spring. 3(3-0) RB: (RD 324) 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(3-0) RB: (RD 460) or approval of department.

826 International Development and Sustainability
Summer. 3(3-0) Interdepartmental with Anthropology; Political Science; Forestry; Social Sciences. Environmental, economic, political, legal, management, and cultural components of sustainable development.

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

830 Wetlands Law and Policy
Spring of odd years. 3(3-0) Interdepartmental with Agricultural Economics; Fisheries and Wildlife; Forestry. RB: (RD 801) Prior exposure to environmental and natural resource economics, management, policy, or law. An ability to do legal and other library-based research. Origin and development of wetlands law and policy. Wetland functions, mitigation, and banking. Legal, economic, political, and administrative perspectives. Cases, statutes and regulations.

831 Role of the Expert Witness
Fall of odd years. 3(3-0)
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(3-0) Interdepartmental with Agricultural Economics; Crop and Soil Sciences; Forestry; Geography. RB: (RD 430)
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 Law of Environmental Regulation
Fall. 3(3-0) RB: (RD 415) or approval of department.

838 Land Use Law
Spring. 3(3-0) Interdepartmental with Agricultural Economics; Forestry; Urban Planning. RB: (RD 430) SA: RD 834 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
Fall of even years. 3(3-0) RB: (RD 801 and 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 years. 3(3-0) Interdepartmental with Fisheries and Wildlife; Biosystems Engineering; Forestry. Administered by Department of Fisheries and Wildlife. RB: (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.

853 Applied Systems Modeling and Simulation for Natural Resource Management
Spring of odd years. 3(2-2) Interdepartmental with Fisheries and Wildlife; Anthropology; Forestry; Zoology. Administered by Department of Fisheries and Wildlife. RB: (FW 820 or BE 486 or ZOL 851) 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 modeling approach.

858 Gender, Justice and Environmental Change: Issues and Concepts
Spring of odd years. 3(3-0) Interdepartmental with Fisheries and Wildlife; Anthropology; Forestry; Sociology. Administered by Department of Fisheries and Wildlife. RB: Background in social science, environmental science, or natural resources.
Issues and concepts related to gender, ecology, and environmental studies. Key debates and theoretical approaches to addressing environmental issues from a gender and social justice perspective. Gender and environment issues and processes from a global perspective.

859 Gender, Justice, and Environmental Change: Methods and Application
Spring of even years. 3(3-0) Interdepartmental with Anthropology; Forestry; Fisheries and Wildlife; Sociology. Administered by Department of Anthropology. RB: Background in social science, environmental science, or natural resources.
Methods and case studies related to gender, ecology, and environmental studies. Methodological and fieldwork issues from a feminist perspective and in international/intercultural contexts. Qualitative and quantitative methods for integrating social and environmental data.

862 Farming Systems and Rural Development
Fall of odd years. 3(3-0) Interdepartmental with Sociology. Administered by Department of Sociology. R: Open only to graduate students in the departments of Sociology and Resource Development.
Farming systems research and its place in rural development strategies. Sociological and resource analysis of small scale family farming systems.

866 Economics of Renewable Resources
Spring of odd years. 3(2-2) Interdepartmental with Forestry. Administered by Department of Forestry. RB: (AEC 829 or EC 803 or EC 806) SA: FOR 866
Applications of economic theory and analysis to renewable natural resource problems. Focus on renewable resource interactions, including multiple-use forestry and agroforestry.

867 Methods and Modeling in Regional Science
Spring of even years. 3(3-0) Interdepartmental with Geography; Urban Planning. Administered by Department of Geography. RB: (EC 820 and GEO 865) and (GEO 415 or RD 461)
Techniques for regional research: economic base analysis, input-output analysis, mathematical programming, and econometric and simulation analysis.
870 Community Resource Development  
Fall. 3(3-0)  
Concepts, models, and strategies. Design and implementation of change in community settings.

874 Management of Nonprofit Organizations  
Fall. 3(3-0)  

876 International Rural Community Development  
Fall. 3(3-0)  

878 Administration of International Development  
Spring. 3(3-0)  
Theory and practice of rural development in different societies. Description and analysis of planning, organizing, staffing, directing, and financial management.

890 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: Approval of department. Individual study of selected topics under faculty supervision.

891 Selected Topics  
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. Selected topics on current innovations or emerging issues in resource development.

898 Master's Research  
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. R: Open only to master's students in Resource Development. Plan B research paper.

899 Master's Thesis Research  
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Open only to master's students in Resource Development. Master's thesis research.

923 Advanced Environmental and Resource Economics  
Spring of even years. 3(3-0)  
Interdepartmental with Agricultural Economics; Economics; Forestry; Park, Recreation and Tourism Resources. Administered by Department of Agricultural Economics. RB: (AEC 829 and EC 805) SA: AEC 991H  
Advanced economic theory of environmental management and policy. Treatment of externalities and market and non-market approaches to environmental improvement. Topics in conservation and sustainable economic growth. Applications to research and policy.

925 Environmental and Resource Economics Research  
Spring of odd years. 3(3-0)  
Interdepartmental with Agricultural Economics; Forestry; Park, Recreation and Tourism Resources; Economics. Administered by Department of Agricultural Economics. RB: (AEC 829 and EC 805) SA: AEC 991H  
Topics such as contingent or non-market valuation, institutional analysis, pollution prevention, environmental quality and location, recreational demand modeling, and environmental risk management. Research process in environmental and resource economics.

999 Doctoral Dissertation Research  
Fall, Spring. Summer. 1 to 24 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Open only to Ph.D. students in Resource Development. Doctoral dissertation research.

ROM—Romance Languages

Department of Romance and Classical Languages

College of Arts and Letters

241 Classical and Romance Literature in English Translation  
Fall. 4(4-0)  
Major works of ancient Greek and Latin literatures and of French, Italian, and Spanish medieval and Renaissance literatures. Guest lectures by specialists on the various works.

350 Contemporary Romance Film  
Spring of odd years. 4(2-4) R: Not open to freshmen. An appraisal of the work of preeminent filmmakers of the romance languages and their contributions to contemporary film.

355 French, Italian and Spanish Cinema since 1930  
Spring of even years. 4(2-4) R: Not open to freshmen. Major French, Italian, and Spanish films, film movements, and thematic trends.

360 Postcolonial Literature and Theory  
Fall, Spring. 3(3-0)  
Interdepartmental with English. Administered by Department of English. P:M: Completion of Tier I writing requirement. RB: 3 credits of literature. Theories and literatures involving colonialism, decolonization, neocolonialism, cultural and political independence. Texts drawn principally from Asia, Africa, the Caribbean, Latin America and various diaspora communities.

401 Romance Linguistics  
Fall of odd years. 3(3-0) P:M: (FRN 320 and FRN 330) or (ITL 320) or (SPN 320 and SPN 330) R: Not open to freshmen or sophomores. Such issues as phonology, syntax, morphology and lexicon as they apply to Romance languages.

469 Topics in Comparative Literature  
Spring. 3(3-0)  
Interdepartmental with English. P:M: Completion of Tier I writing requirement. R: Not open to freshmen or sophomores. Relationships among writers, themes, genres, movements, and periods in different national literatures and between literature and other arts.

474 Aesthetic Theory and Modernism  
Fall. 4(4-0)  
Interdepartmental with Philosophy; English; History of Art; Linguistics and Languages; Music. Administered by Department of Philosophy. R: Not open to freshmen or sophomores. Problems, assumptions, and arguments of modern aesthetic theory examined in the context of debates over modernity and modernist artistic practice.

800 Research Methods and Bibliography of the Romance Languages  
Fall. 3(3-0)  
Reference tools, bibliographic resources, and research techniques for scholarly research and writing in Romance languages and literatures.

801 Topics in Applied Romance Linguistics  
Spring of even years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. Major issues in applied linguistics and their relationship to Romance languages.

802 Topics in Theoretical Romance Linguistics  
Spring of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. A student may earn a maximum of 3 credits in all enrollments for this course. Major issues in applied linguistics and their relationship to Romance languages.

803 Current Approaches to Romance Language Instruction  
Fall. 3(3-0)  
SPN 800 Theoretical and applied study of methodologies of teaching romance languages.

805 Topics in Critical Theory  
Fall, Spring. 1(1-0) A student may earn a maximum of 3 credits in all enrollments for this course. R: Approval of department. Introduction to post-structuralist critical theory.

821 Proseminar in Comparative Literature  
Fall. 3(3-0)  
Interdepartmental with Arts and Letters; English; Linguistics and Languages. Administered by Arts and Letters. R: Open only to graduate students in the College of Arts and Letters. History and practice of comparative literature including foundational concepts and current directions.

822 Methods of Comparative Literature  
Spring. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Arts and Letters; English; Linguistics and Languages. Administered by Arts and Letters. R: Open only to graduate students in the College of Arts and Letters. Case studies in international literary tradition, reception, and transmission. Approaches to genre and period. History and aesthetics of reception.