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

191. *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.
?: Approval of department.
Special topics supplementing regular course offerings, proposed by faculty on a group study basis.

199. *Senior Thesis Research*
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
?: 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.

590. *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.

RESOURCE DEVELOPMENT RD

Department of Resource Development
College of Agriculture and Natural Resources

201. *Environmental and Natural Resources*
Fall, Spring. 3(3-0)
Physical, economic, and institutional aspects of natural resource and environmental policy. US doctrines for land, water, mineral, and environmental resource management.

207. *Great Lakes: Biology and Management*
Spring. 3(3-0) Interdepartmental with Fisheries and Wildlife. Administered by Fisheries and Wildlife.
Living aquatic resources of the Great Lakes: environmental history, biological resources and their management. Policy issues.

310. *Environmental Communication*
Fall. 3(3-0) Interdepartmental with Agricultural and Extension Education.
P: RD 201, ZOL 250. R: Not open to freshmen and sophomores.
Environmental risk communications. Conflict resolution. Mitigation and public forum management.

320. *Resource Management and Planning*
Fall. 3(3-0)
P: RD 201; ZOL 250. R: Not open to freshmen and sophomores.
Concepts, principles, and objectives of management and planning. Population dynamics, resource demand, and impact and suitability assessment for sustainable development.

324. *Water Resource Development*
Spring. 3(3-0)
P: RD 320, GEO 106. R: Not open to freshmen.
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.
P: RD 201, RD 320. R: Not open to freshmen.
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)
P: RD 201, RD 320. R: Not open to freshmen and sophomores.
State-level legal and regulatory management of environmental issues. Environmental site assessment and auditing. Regulatory compliance. Permit process. Right-to-know. Land and water use regulation.

374. *Leadership Skills for Resource Development Practice*
Fall. 3(3-0)
P: RD 201. R: Not open to freshmen and sophomores.
Concepts and techniques for resource development practitioners.

409. *Forest Hydrology*
Spring of odd-numbered years. 3(2-3) Interdepartmental with Forestry, and Crop and Soil Sciences. Administered by Forestry.
P: CSS 210; MTH 116; CPS 100 or CPS 130 or CPS 131. R: Not open to freshmen and sophomores.
Science and technology of the hydrologic cycle and water resources in forest, wildland, wetland, and rural watersheds.

415. *Introduction to Impact Assessment*
Fall. 4(3-2)
P: STT 200, ZOL 250. R: Open only to seniors and graduate students.
Environmental, social, and economic impact assessment. Risk analysis, technology assessment, project management, and data collection and use.

426. *Waste Management Planning*
Fall. 3(2-2)
P: RD 201, RD 326. R: Not open to freshmen and sophomores.
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.

430. *Law and Resources*
Fall. 3(3-0) Interdepartmental with Public Resource Management and Forestry.
P: RD 201; EC 201 or GBL 395. R: Not open to freshmen and sophomores.
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 Sociology and Public Resource Management.
P: GBL 395. 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.

440. *The Resource Development Policy Process in Michigan*
Spring. 3(3-0) Interdepartmental with Public Resource Management.
P: RD 201; PRM 201 or PLS 100 or PLS 301 or PLS 324. R: Not open to freshmen and sophomores.
Public policy formation related to environmental and economic development issues at state and community levels. Observation and analysis of actual proceedings. Field trips required.

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

460. *Resource and Environmental Economics*
Spring. 3(3-0) Interdepartmental with Public Resource Management, Park and Recreation Resources, and Agricultural Engineering.
P: RD 201, EC 201. R: Not open to freshmen and sophomores.
Economics of land and related environmental resources. Production and consumption processes. Resource allocations and scarcity. Market failure and externalities. Market and institutional remedial approaches.

461. *Regional Economics*
Fall. 4(3-2) Interdepartmental with Public Resource Management and Economics.
P: EC 201 or RD 460. R: Not open to freshmen and 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*
Fall. 3(2-2) Interdepartmental with Forestry, Park and Recreation Resources, and Fisheries and Wildlife. Administered by Forestry.
P: EC 201 or EC 202. R: Not open to freshmen and 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.

465. *Ecological Risk Assessment*
Spring of odd-numbered years. 3(3-0) 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(2- 3) Interdepartmental with Forestry, Fisheries and Wildlife, and Park and Recreation Resources. Administered by Forestry.
P: FOR 408; FOR 464 or FW 434 or FW 424; FW 472 or PRR 443 or RD 415 or RD 460. R: Open only to seniors and graduate students in College of Agriculture and Natural Resources.
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 Sociology and Public Resource Management.
P: EC 201 or EC 202; RD 201 or approval of department.
R: Not open to freshmen and sophomores.
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. 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: 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)
P: RD 201, RD 460. R: Open only to seniors in Resource Development.
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 Department of Resource Development.
Supervised research option for satisfying capstone experience requirement.

801. Resource Development Policy
Fall. 3(3-0)
Environmental 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(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) Interdepartmental with Forestry.
Research planning and implementation. Structure of research organizations. Applications of research results.

810. Institutional and Behavioral Economics
Fall. 3(3-0) 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.

822. Energy and Mineral Resource Management
Fall. 3(3-0)
Supply, demand, and use of world energy and minerals. International trade. Governmental policies. Environmental impacts. Efficiencies, alternative sources, substitutions, strategic materials, recycling, and net energy.

824. Watershed Management
Spring. 3(3-0)
P: 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)
P: RD 460 or approval of department.
Land resource evaluation and impact assessment for rural development planning and policy analysis. Concepts, principles, and indicators of sustainable development. Systems approaches and applied models in resource assessment. Case studies.

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

827. Natural Resources Management in Latin America
Fall of even-numbered years. 2(2-0)
Physical, environmental, political and social aspects of natural resource management. Case studies.

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, Forestry, Park and Recreation 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(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, Forestry, Crop and Soil Sciences, and Geography.
P: RD 430.
Origin and development of environmental law. Theories of power, jurisdication, 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(3-0)
P: RD 415 or approval of department.
Administrative law. National Environmental Policy Act. Air and water pollution. Toxic substances. Case studies.

837. Water Law
Spring. 3(3-0) 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(3-0) 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(3-0)
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.

860. Methods and Modeling in Regional Science
Spring. 3(3-0) Interdepartmental with Geography.
P: RD 461.
Regional research techniques. Economic base analysis, input-output analysis, mathematical programming, and econometric and simulation analysis.

866. Economics of Renewable Resources
Spring of odd-numbered years. 3(3-0) Interdepartmental with Forestry. Administered by Forestry.
P: AEC 821.
Applications of economic theory and analysis to renewable natural resources problems. Focus on renewable resource interactions, including multiple-use forestry and agroforestry.

867. Methods and Modeling in Regional Science
Spring of even-numbered years. 3(3-0) Interdepartmental with Geography and Urban Planning. Administered by Geography.
P: EC 820, GEO 865; 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.

871. Leadership Development in Communities and Organizations
Spring of odd-numbered years. 3(3-0)
P: RD 802 or RD 870.
Community leadership development concepts and models. Leadership effectiveness.

873. Planning Models in Resource Development Organizations
Spring of even-numbered years. 3(3-0)
Organizational planning models used in resource development. Emphasis on the strategic planning process in the public and non profit sectors.

876. International Rural Community Development
Fall. 3(3-0)
Rural community resource development in Africa, Asia, Europe and the Americas. Theories of development, learning, participation, and program development. Evaluation strategies. Case studies.

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.

879. Research Applications in Community Development
Spring of odd-numbered years. 3(3-0)
P: RD 803.
Concepts, issues, and approaches for enhancing the research applications in community development.

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.
R: Approval of department.
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.
Master's degree 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.

910. Modeling for Natural Resources Management
Spring of even-numbered years. 3(2-2) Interdepartmental with Forestry. Administered by Forestry.
P: AEC 892B.
Simulation and optimization models for developing resource management strategies. Decision and policy analysis.

923. Theory of Resource and Environmental Economics
Spring of even-numbered years. 3(3-0) Interdepartmental with Agricultural Economics, Forestry, Park and Recreation Resources, and Economics. Administered by Agricultural Economics.
P: AEC 829, EC 805.
Economic theory of environmental change and control. Market and non-market allocation mechanisms. Temporal issues of conservation and growth. Contemporary issues in research and policy.

936. Advanced Environmental Law
Spring of odd-numbered years. 3(3-0)
P: RD 836.
International and comparative environmental law. Form and content of environmental impact statements. Agency discretion and judicial review. Conflicts between law and science.

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.

ROMANCE LANGUAGES ROM

Department of Romance and Classical Languages
College of Arts and Letters

242. Romance Literatures in English Translation
Spring. 4(4-0)
Major works of French, Italian, Portuguese, and Hispanic literatures from the seventeenth century to the present. Guest lectures by specialists on the various works.

350. Contemporary Romance Film
Spring of odd-numbered years. 3(2-2)
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-numbered years. 3(2-2)
R: Not open to freshmen.
Major French, Italian, and Spanish films, film movements, and thematic trends.

360. World Literature
Fall. 3(3-0) Interdepartmental with English, and Linguistics and Languages. Administered by English.
P: 6 credits of literature. R: Not open to freshmen. Open only to students in the College of Arts and Letters.
Works which address material and cultural realities from a global rather than a national or regional perspective. Emphasis on texts, translated into or written in English, from the Orient, the Middle East, Africa, and the Caribbean.

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

410. Methods of Teaching Romance and Classical Languages
Fall. 3(3-0)
P: French majors: FRN 420; FRN 425 or FRN 430. Spanish majors: SPN 411 or SPN 416; SPN 425 or SPN 430. R: Open only to majors in French and Spanish with a teacher certification option or approval of department.
Classroom instruction in teaching Romance and classical languages. Methodological theories and selection of instructional techniques based on course objectives and needs.

469. Topics in Comparative Literature
Spring. 3(3-0) Interdepartmental with English.
R: Not open to freshmen and 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, History of Art, English, Linguistics and Languages, and Music. Administered by Philosophy.
R: Not open to freshmen and 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 of odd-numbered years. 1(1-0)
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-numbered 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-numbered years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.
Topics such as a comparison of the linguistic grammars of the Romance languages, and their external and internal history.

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, and Linguistics and Languages. Administered by Arts and Letters.
R: Approval of college.
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, and Linguistics and Languages. Administered by Arts and Letters.
P: AL 821 or approval of college. R: Open only to graduate students in College of Arts and Letters.
Case studies in international literary tradition, reception, and transmission. Approaches to genre and period. History and aesthetics of reception.

823. Seminar in Comparative Literary Criticism
Fall. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Arts and Letters, English, and Linguistics and Languages. Administered by Arts and Letters.
P: AL 822. R: Approval of college.
Theory and practice of comparative literary criticism, with attention to the development of critical approaches and to current topics in the critical literature.

825. Comparative Critical Theory
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, and Linguistics and Languages. Administered by Arts and Letters.
P: AL 822 or approval of college. R: Open only to graduate students in College of Arts and Letters.
Critical theory of comparative literature, including comparative studies in rhetorical theory and discourse analysis.