RESOURCE DEVELOPMENT

College of Agriculture and Natural Resources

IDC: Resource Ecology and Man
For course description, see Interdisciplinary Courses.

202. Soils and Man's Environment
Winter. 3(3-0) Interdepartmental with Fisheries and Wildlife Department and Natural Resources and Soil Science and administered by Soil Science. Use of soil-water resources in a technological society as it relates to environmental quality. Nature of pollution problems and their possible solutions. Food production and world population.

301. Conservation of Natural Resources
Fall, Winter, Spring, Summer. 3(3-0) Development of conservation movement with broad treatment of basic natural resources (minerals, land, waters, forests, wildlife). Conservation practices and facilities, organizations, and agencies involved in their application. General introduction to field.

355. Junior-Senior Seminar
Fall, Winter. 1(1-0) Junior majors. Current issues, problems and opportunities in resource development. Student involvement in discussions, analyses, and presentations on resource problems and possible solutions.

401. Production Economics and Management

417. Land Economics
Fall, Spring. 4(4-0) Interdepartmental with the Economics Department, Public Affairs Management and Food Systems Economics and Management. Factors affecting man's economic use of land and space resources. Input-output relationships; development, investment, and enterprise location decisions. Land markets; property rights; area planning; zoning and land use controls.

420. Water Resource Development
Fall, Winter, Spring, Summer. 4(3-0) Significance of water resources in modern society. Introduction to the needs of industry, agriculture and recreation. Concepts of development, use and conservation are critically evaluated in terms of future needs.

450. Natural Resource Administration

460. Regional Economics
Winter. 4(4-0) 417 or EC 324 or R D 401. Interdepartmental with the Economics Department, Public Affairs Management and Food Systems Economics and Management. Forces affecting location decisions of firms, households and governments. Applications to agricultural, industrial, and regional developments.

480. Supervised Study
Fall, Winter, Spring, Summer. 1 to 6 credits. May re-enroll for a maximum of 10 credits. Approval of department. Seminars on current problems. Supervised readings. Individual undergraduate research on selected topics.

485. Senior Research Seminar
Winter, Spring. 3(3-0) Senior majors. Current issues, literature, and professional approaches in resource development.

491. Natural Resources and Modern Society
Fall, Spring. 3(3-0) Juniors. Interdepartmental with the Forestry Department and Natural Resources and administered by the Forestry Department. A survey of the social and economic significance of natural resources in modern industrial and urban society. Current problems of natural resource management and use are examined in terms of the society in which they exist.

801. Resource Development Policy
Fall. 3(3-0) Analysis of past and present public resource development policies and programs in the United States. Emphasis on national policies.

802. International Resource Development
Winter. 3(3-0) Investigation and analysis of major natural resource use patterns and problems emerging on the international scene. Implications of these patterns and problems for the United States. Examination of national and international agencies.

805. Regional Resource Development
Spring. 3(3-0) Approval of department. Multistate organizational forms for natural resource development. Strengths, weaknesses, and potentials. Historical precedents and proposals for the future. TWA, UCLIA, ARB, and DRBC are studied.

809. Natural Resources Economics
Winter. 3(3-0) Approval of department. Interdepartmental with and administered by the Forestry Department. Applications of economic analysis to natural resource problems.

810. Economics of Public Choice
Winter. 3(3-0) Approval of department. Interdepartmental with the Agricultural Economics and Environmental Economics Departments and administered by the Agricultural Economics Department. Economics of alternative institutions for collective action. Emphasis on property rights and natural resources. Public goods, externalities, non-monetary change, commonwealth, income and power distribution, grants, welfare criteria and market failure.

811. Public Program Analysis
Spring, Summer of odd-numbered years. 3(3-0) FSM 401 or EC 324 or approval of department. Interdepartmental with the Agricultural Economics and Economics Departments and administered by the Agricultural Economics Department. Application of benefit-cost analysis to public programs of resource development. Issues and case studies in budgeting, investment criteria, pricing, externalities, and coordination.

812. Public Direction of Land Use
Spring. 3(3-0) Use of public spending, property ownership, police, condemnation, and taxation powers to influence land use decisions.

815. Community Resource Development
Winter. 4(4-0) Approval of department. Explorations of community growth and change. Review of public and private agency programs. Case studies of successful and unsuccessful approaches.

816. Field Techniques in Community Resource Development
Spring. 6(3-6) 815 or FE 835 or approval of instructor. Interdepartmental and jointly administered with the Department of Family Ecology. Application of community and family resource inventory, analysis, and program planning techniques in Michigan rural-urban situations.

821. Water Management Institutions
Winter. 3(3-0) Major institutional structures and issues in water resource management. Emphasis on linkage between federal, state and local management levels.

824. Watershed Management
Fall, Spring. 3(3-5) Investigation of watersheds, emphasizing physical relationships of water to other resources. Survey of water problems, planning for water use and management practices including conservation and multiple use aspects. Field trips required.

832. Natural Resource Law
Fall. 3(3-0) Legal principles of natural resources administration. Focus on natural resource jurisdiction. Discussion of state and Federal cases, statutes, and treaties. Constitutional and common law. Limitations on governmental power.

835. Water Resources Law
Winter. 3(3-0) Legal principles affecting private rights in state and federal regulation of surface and ground waters. Emphasis on water quality controls.

836. Environmental Law I
Winter. 3(3-0) Approval of department. Public and private legal controls and restrictions on resource use, including common law, nuisance and trespass, citizen suits, class actions, appeals from agencies, Administrative Procedure Act, National Environmental Policy Act.

837. Environmental Law II
Spring. 3(3-0) 836. Analysis of federal environmental laws (NEPA, SDWA, Clean Air Act). Current status and content of Environmental Impact Statements and problems of agency discretion and judicial review.
842. Park and Recreation Policy
Fall, 3(3-0) Interdepartmental with and administered by the Department of Park and Recreation Resources.
Recreation, leisure and work concepts. Determination of needs for recreation facilities. Factors affecting public and private allocation of resources for provision of needed facilities.

851. Public Program Budgeting
Fall, 3(3-0) Approval of department. Interdepartmental with and administered by the Forestry Department.
Survey of the federal government's planning-programming-budgeting system, stressing executive branch budget decision-making and budget administration in the natural resource agencies.

855. Research Methods
Fall, 3(3-0) Approval of department. Interdepartmental with the Forestry Department.
Research techniques applicable to management, and policy-oriented natural resource investigations. Analysis of project designs; preparation of project proposals. Evaluation of representative published research studies.

860. Regional Science Methods
Spring, 4(4-0) 460 or approval of department.
Demographic analysis, social accounts, economic base, input-output, industrial complex, linear programming, gravity models, and other techniques for regional research.

880. Special Problems
Fall, Winter, Spring, Summer. 1 to 6 credits. May re-enroll for a maximum of 10 credits. Approval of department.

917. Issues in Land Economics
Winter, Spring, 3(3-0) May re-enroll for a maximum of 6 credits. Doctoral students. 417 and 460.
Analysis of selected issues related to the utilization of land and water resources.

960. Simulation Models in Natural Resource Management
Winter of odd-numbered years, 3(3-0) Approval of department. Interdepartmental with the Forestry Department.
The role of simulation models in developing management strategies. Applications of computer simulation in natural resources. Modeling of decision systems in natural resources management.

990. Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

ROMANCE LANGUAGES
College of Arts and Letters
Students who have had high school work in the foreign language in which they wish to continue their studies must take a placement examination in that language. Placement in the appropriate course is determined by the results of this examination. University credit is not given for courses waived by performance on the placement examination.

Romance Language Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Period</th>
<th>Restrictive Conditions</th>
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</thead>
<tbody>
<tr>
<td>210.</td>
<td>Latin America: Its Peoples and Cultures</td>
<td>Fall, Winter</td>
<td>3(3-0)</td>
<td>Geographical, ethnic, social, political, economic, and cultural characteristics of Brazil and the La Plata region.</td>
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<tr>
<td>211.</td>
<td>Latin America: Its Peoples and Cultures</td>
<td>Winter</td>
<td>3(3-0)</td>
<td>Continuation of 210. Western and northern South America.</td>
</tr>
<tr>
<td>212.</td>
<td>Latin America: Its Peoples and Cultures</td>
<td>Spring</td>
<td>3(3-0)</td>
<td>Continuation of 211. Mexico and the Caribbean region.</td>
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Romance Language Courses - Descriptions of Courses

417. Scandinavian Contributions to Literary Tradition
Fall, 3(3-0) Approval of department. Interdepartmental with the departments of German and Russian and English and administered by the Department of German and Russian.
Development and influence of the ideas, forms and motifs of the Scandinavian literatures in the literatures of the world.

418. Scandinavian Contributions to Literary Tradition
Winter, 3(3-0) Approval of department. Interdepartmental with the departments of German and Russian and English and administered by the Department of German and Russian.
Continuation of 417.

419. Scandinavian Contributions to Literary Tradition
Spring, 3(3-0) Approval of department. Interdepartmental with the departments of German and Russian and English and administered by the Department of German and Russian.
Continuation of 418.

450. Canadian-American Studies
For course description, see Interdisciplinary Courses.

499. Special Projects
Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 18 credits. Approval of department.
Work in areas outside regular course offerings.

500. Research Methods and Bibliography of the Romance Literatures
Fall, 3(3-0) Recommended for first-year graduate students.
Methods of research, basic bibliographical tools, critical terminology and techniques of scholarly writing, library procedures.

501. Romance Philology
Spring of even-numbered years, 3(3-0) FRN 805 or SPN 805.
Examination of the relatedness of the Romance Languages: common source Latin lexicon, phonological system, grammar. Concentration on the three major Romance Languages, French, Italian, Spanish, with some attention to other languages.

505. History of Literary Criticism
Fall, Winter, 3(3-0) May re-enroll for a maximum of 6 credits.
Literary criticism from Classical antiquity to the present. Emphasis on theories of literary composition and analysis.

515. Theory of Literature
Spring, 3(3-0) May re-enroll for a maximum of 6 credits.
Modern critical theories in the Romance literatures, such as French existentialist and structuralist schools, Spanish and Italian theorists such as Ortega y Gasset and Benedetto Croce.

825. Comparative Literature: Studies in Theme and Idea
Fall, 3(3-0) May re-enroll for a maximum of 6 credits. Interdepartmental with the departments of English and German and Russian.
Myth, archetypes, Topoi, significant ideas and intellectual currents in different periods and cultural traditions.

856. Comparative Literature: Literature and Other Disciplines
Winter, 3(3-0) May re-enroll for a maximum of 6 credits. Interdepartmental with the departments of English and German and Russian.
Relations between literature and the sciences and other arts; social, historical, psychological, philosophical bases of literary study.