801 Managerial Finance
Fall, 3(3-0) RB: (ACC 800) R: Open only to students in the Program in Professional Accounting and to students in programs for which FI 801 is a catalog-listed requirement. Short-, intermediate- and long-term problems. Financial planning and control. Applications in domestic and international settings.

305 Managerial Finance for Manufacturing and Innovation
Spring, 2(2-0) R: Open only to students in the Master of Science in Manufacturing and Innovation. Not open to students with credit in FI 801 or FI 862.

Introduction to business finance. Current institutional environment, financial planning, risk and return, capital budgeting and capital structure, including cost of capital. Basic tools for analyzing and interpreting financial data. Coverage of both for-profit and not-for-profit entities.

812 Financial Management and Strategy
Summer, 3(3-0) Summer: Exec Develop Center. RB: undergraduate degree in Accounting R: Open only to Master of Science students in Accounting and Business Processes.

Financial planning and control using financial theory and management techniques. Analysis of financial markets and risks and how they affect short- and long-term investment and financing. Applications in domestic and international settings.

844 Corporate Financial Strategies
Spring, 3(3-0) P:M: (MBA 822) RB: (FI 851 or FI 865) R: Open only to MBA students or approval of department.

Managerial decision-making applied to key corporate financial strategic policies. Case studies.

845 Financial Modeling and Simulation
Fall, 3(3-0) P:M: (MBA 822) RB: (FI 851) R: Open only to MBA students or approval of department.

Applications of financia theory through computer modeling. Forecasting, cash flow modeling, valuation, portfolio optimization, risk measurement, and option pricing.

851 Introduction to Investments
Fall, Spring, 3(3-0) P:M: (MBA 822) R: Open only to MBA students or approval of department.

Security risk and return concepts. Portfolio analysis and concepts of market efficiency. Equity investments, bonds, options, futures, and international securities.

852 Financial Markets and Strategies
Spring, 3(3-0) P:M: (MBA 822 and FI 851) R: Open only to MBA students or approval of department.

Theories of domestic and international financial markets and instruments. Effects of risk and maturity on prices. Arrangement of business and portfolio risk and returns with options and futures.
205 Principles of Fisheries and Wildlife Management
Spring. 3(3-0)
Characteristics of the fish and wildlife resource. Ecological and societal factors influencing the management of fish and wildlife. Management techniques.

207 Great Lakes: Biology and Management
Fall. 3(3-0) Interdepartmental with Resource Development.
Living aquatic resources of the Great Lakes: environmental history, biological resources and their management. Policy issues.

208 Outdoor Preparedness for Natural Resources Professionals
Spring. 3(3-0)

211 Introduction to Gender and Environmental Issues
Spring. 3(3-0) Interdepartmental with Forestry; Environmental Economics and Policy; Resource Development; Women's Studies. R: Not open to freshmen. SA: PRM 211

275 Seafood Systems Management
Spring. 3(3-0) Interdepartmental with Food Science; Animal Science.
Domestic and international perspectives on major aquatic foods. Cultural and nutritional value; wild harvest; aquaculture; processing technology; food handling and food safety.

284 Natural History and Conservation in Michigan
Fall. 3(2-3)
Identification, habitat requirements, and distribution of Michigan’s flora and fauna. Interrelationships which influence natural resource use. Field trips required.

324 Wildlife Biometry
Spring. 3(2-3) P: (MTH 103 or MTH 116 or LBS 117 or MTH 124 or concurrently or MTH 132 or concurrently or LBS 118 or concurrently or MTH 152H or concurrently) RB: (ZOL 355)
Quantitative techniques to analyze and interpret fisheries and wildlife data.

326 Introduction to Waste Management
Fall. 3(3-0) Interdepartmental with Resource Development. Administered by Department of Community, Agriculture, Recreation and Resource Studies. RB: (RD 200)
Waste management definitions, techniques, technologies, and strategies. Integrative approach to waste management as an environmental, social, and political subject.

341 Writing Nature and the Nature of Writing
Fall. 3(3-0) Interdepartmental with Writing, Rhetoric and American Cultures. Administered by Department of Writing, Rhetoric and American Cultures. P: Completion of Tier I writing requirement. SA: AL 341 Writing and reading-intensive course focusing on the language of scientists, poets, essayists, naturalists, environmentalists, and biologists, and on their various responses to and representations of the natural environment.

364 Ecological Problem Solving
Spring. 3(2-2) P: (MTH 124 or concurrently or MTH 132 or concurrently or LBS 118 or concurrently) and (FW 324 or STT 201 or STT 231 or STT 421) and (ZOL 355 or BE 230)
Application of ecological concepts and models to problems in natural resource and ecosystem management.

370 Introduction to Zoogeography
Fall. 3(3-0) Interdepartmental with Zoology; Geography. Administered by Department of Zoology. P: (ZOL 110 or LBS 144 or LBS 148H)
Fundamentals of zoo and aquarium operations including research, interpretation, design, nutrition, captive breeding, conservation, ethics and management.

404 Women and the Law in the United States
Fall of odd years. Spring of odd years. 3(3-0)
Three-hour seminar on the impact of law on women's lives. Problem-oriented seminars on issues of interest to women and family law. Students conduct independent research on a topic of their choice and write a research paper.

410 Upland Ecosystem Management
Spring. 3(2-3) P: (ZOL 355 or FOR 404) and completion of Tier I writing requirement. RB: (FW 364) for students in FW major.
Analysis and management of upland ecosystems to meet wildlife management and biodiversity objectives. Mitigation of human impact.

412 Wetland Ecosystem Management
Fall. 3(3-0) P: (ZOL 355) and completion of Tier I writing requirement. RB: (FW 364) for students in FW major.
Ecosystem components and processes applied to wetland management. Mitigation of human impact.

413 Wildlife Research and Management Techniques
Fall, Summer. 4(2-4)
Summer: Given only at W.K. Kellogg Biological Station. RB: (FW 424) or (FW 410 and FW 410) and (FW 410 and FW 410) R: Open only to seniors in the Department of Fisheries and Wildlife.
Sociological implications of public policy and planning processes in fisheries and wildlife management.

414 Aquatic Ecosystem Management
Fall. 3(3-0) P: (ZOL 355) and completion of Tier I writing requirement. RB: (FW 364) for students in FW major.
Management of aquatic habitats and populations for ecological, and socioeconomic objectives; human impacts on aquatic ecosystems.

416 Marine Ecosystem Management
Fall. 3(3-0) P: (FW 110 and ZOL 355)
Management of marine ecosystems and populations for ecological and socio-economic objectives; anthropogenic impacts, mitigation, and marine resource conservation strategies.

419 Applications of Geographic Information Systems to Natural Resources Management
Spring. 4(2-4) Interdepartmental with Forestry; Geography; Park, Recreation and Tourism Resources; Resource Development; Biosystems Engineering. 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.

420 Stream Ecology
Fall. 3(3-0) Interdepartmental with Zoology. P: (BS 110 or LBS 144 or LBS 148H) RB: (CEM 141 and ZOL 355)
Biological and environmental factors determining structure and function of stream ecosystems.

422 Aquatic Entomology
Fall of odd years. 3(2-3) Interdepartmental with Entomology; Zoology. Administered by Department of Entomology. P: (BS 110) SA: ENT 420
Biology, ecology and systematics of aquatic insects in streams, rivers and lakes. Field trips and aquatic insect collection required.

424 Population Analysis and Management
Fall. 4(3-2) P: (ZOL 355) and (FW 324 or STT 201 or STT 231 or STT 421) and (MTH 124 or MTH 132 or LBS 118)
Statistical, ecological and management concepts and methods needed to analyze and interpret demographic data and manage fish and wildlife populations.

431 Comparative Limnology
Summer. 4(2-6)
Given only at W.K. Kellogg Biological Station Interdepartmental with Zoology; Plant Biology. Administered by Department of Zoology. P: (CEM 141 or CEM 151) and (ZOL 355) Not open to students with credit in FW 472.
Physical, chemical, and biological aspects of lakes and streams. Introduction to freshwater biology, and population and community ecology.

434 Human Dimensions of Fisheries and Wildlife Management
Spring. 3(2-2) P: (FW 424) and (FW 410 or FW 410) R: Open only to seniors in the Department of Fisheries and Wildlife.
Sociological implications of public policy and planning processes in fisheries and wildlife management.
443 Restoration Ecology  
Spring. 3(2-2) Interdepartmental with Bio-
systems Engineering; Zoology. RB: (CSS 210 or BE 230) and (FOR 404 or FW 364 or ZOL 355)  
Principles of ecological restoration of disturbed or damaged ecosystems. Design, implementation, and presentation of restoration plans. Field trips required.

444 Conservation Biology  
Fall. 3(3-0) Interdepartmental with Zoology; P: (ZOL 355 or FOR 404) and completion of Tier I writing requirement.  
Ecological theories and methodologies to manage species, communities and genetic diversity on a local and global scale.

452 Watershed Concepts  
Fall, Spring. Summer. 3(3-0) Interdepartmental with Resource Development; Bio-
systems Engineering; Crop and Soil Sciences; Forestry. Administered by Depart-
ment of Community, Agriculture, Recreation and Resource Studies. P: (RD 324 and ZOL 355) RB: organic chemistry  
Watershed hydrology and management. The hydro-
logic cycle, water quality, aquatic ecosystems and social systems. Laws and institutions for managing water resources.

462 Ecology and Management of Invertebrates  
Spring. 4(3-3) P: (BS 110 or LBS 144 or LBS 148H) RB: (ZOL 355)  
Ecology, conservation, and management of selected non-insect invertebrate species including commer-
cially important, exotic, non-game, and selected threatened and endangered species.

464 Natural Resource Economics and Social Science (W)  
Fall. 3(2-2) Interdepartmental with Forestry; Park, Recreation and Tourism Resources; Resource Development. Administered by Depart-
ment of Forestry. P: (EC 201 or EC 202) and completion of Tier I writing re-
quirement. R: Not open to freshmen or sophomores.  
Application of economic and social science princi-

466 Natural Resources Planning and Policy  
Spring. 3(2-2) Interdepartmental with For-
estry; Park, Recreation and Tourism Re-
sources; Resource Development. Adminis-
tered 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.

468 Great Lakes Water Policy  
Fall. 2(2-0) Interdepartmental with James Madison College. P: (BS 110 or BS 148H or ISB 200 or ISB 202 or ISB 204 or ISB 206H or LBS 148H or LBS 144) RB: Familiarity with biological and ecological science and environmental planning and policy issues. R: Open only to juniors or seniors.  
Environmental policy issues associated with the use, management, and protection of the binnational Great Lakes basin ecosystem.

469 Biomonitoring of Streams and Rivers  
Summer of even years. 3(2-3) Summer.  
Given only at W.K. Kellogg Biological Sta-
tion. Interdepartmental with Entomology. Administered by Department of Entomology. P: (BS 110) Practical field and lab rapid bioassessment method-
ologies used to sample and assess the biota of streams and rivers. Sampling and identification of fish, macroinvertebrates and other biota will be emphasized.

471 Ichthyology  
Fall. 4(3-3) Interdepartmental with Zoology. P: (BS 110 or LBS 144 or LBS 148H) and completion of Tier I writing requirement.  
Fish morphology and physiology. Development, behavior, and ecology. World fishes with emphasis on freshwater fishes.

472 Limnology  
Spring. 3(3-0) Interdepartmental with Zoology. P: (CEM 141 or LBS 171) and (ZOL 355) Not open to students with credit in BOT 431 or FW 431 or ZOL 431.  
Ecology of lakes with emphasis on integrating physi-
cal, chemical, and biological factors affecting their structure and function.

473 Environmental Fish Physiology  
Spring of odd years. 3(3-0) Interdepartmental with Physiology. P: (BS 111 or LBS 145 or LBS 149H) R: Not open to freshmen or sophomores.  
Physiological adaptations of fish to environmental factors; bioenergetics, homeostasis, senses adapta-
tions to diverse and extreme aquatic environments.

474 Limnological and Fisheries Techniques  
Fall. 3(1-6) Interdepartmental with Zoology. P: (FW 472 or FW 414 concurrently) Field and laboratory investigations of physical, chemical, and biological parameters of lakes and streams. Field trips required.

475 Aquaculture  
Spring. 3(3-0) Interdepartmental with Ani-
mal Science. RB: (ANS 313 or ZOL 355)  
Propagation and rearing of aquatic organisms used for food, bait and recreational fisheries manage-
ment. Culture principles and techniques for impor-
tant aquatic species. Commercial potential.

477 Pest Management I: Pesticides in Management Systems  
Fall. 3(3-0) Interdepartmental with Ento-
mology; Crop and Soil Sciences; Horticult-
ure. Administered by Department of Ento-
mology. RB: (CEM 143 or CEM 251) and (BGT 405 and CSS 402) and (ENT 404 or ENT 470 or FW 328)  
Chemistry, efficient use, and environmental fate of pesticides. Legal and social aspects of pesticide use.

478 Pest Management II: Biological Components of Management Systems (W)  
Spring of even years. 3(2-3) Interdepart-
mental with Entomology; Crop and Soil Sciences; Forestry. Adminis-
tered by Department of Entomology. P: (ENT 404 or ENT 470 or PLP 405 or CSS 402 or FW 328) and completion of Tier I writing requirement.  
Principles of host plant resistance and biological control and their relationship to the design of agroecosystems. Classification of insect biological control agents.

479 Fisheries Management  
Spring. 3(2-2) P: (FW 424) and (FW 414 or FW 472)  
Manipulation of aquatic populations and their habi-
tats to achieve societal goals for fishery resources. Management of human impact and biotic diversity.

480 International Studies in Fisheries and Wildlife  
Summer. 3 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. RB: (ZOL 355) R: Not open to freshmen; Approval of department, appli-
cation required.  
Fisheries and wildlife ecology and management study in regions beyond the United States. Ecologi-
cal, economic, social, and cultural influences on fishery and wildlife resources.

484 Environmental Education  
Spring. 3(2-2) P: (AEE 101 or AEE 110 or PRR 351 or RD 300 or TE 150) R: Not open to freshmen or sophomores.  
Methods, materials and theory for teaching envi-
ronmental education in formal and non-formal edu-
cational settings. Field trips required.

485 Environmental Science Senior Seminar  
Spring. 1(2-0) P: (FW 484 or concurrently) R: Open only to seniors in the Environ-
mental Science minor.  
Ecological principles, population growth, resource utilization and lifestyle choices.

489 Seminar in Zoo and Aquarium Science  
Fall, Spring. 1(1-0) A student may earn a maximum of 3 credits in all enrollments for this course. Interdepartmental with Zoology; Park, Recreation and Tourism Resources. Administered by Department of Zoology. R: Approval of department.  
Scientific writing and oral presentations related to zoo and aquarium studies.

490 Independent Study in Fisheries and Wildlife  
Fall, Spring. Summer. 1 to 5 credits. A stu-
dent may earn a maximum of 5 credits in all enrollments for this course. RB: (BS 110) R: Not open to freshmen or sophomores. Approval of de-
partment; application required. Supervised individual research and study in fisheries and wildlife.

491 Special Topics in Fisheries and Wildlife  
Fall, Spring. Summer. 1 to 5 credits. A stu-
dent may earn a maximum of 5 credits in all enrollments for this course. RB: (BS 110) R: Not open to freshmen or sophomores. Approval of de-
partment; application required. Selected topics of current interest and importance in fisheries and wildlife.
Supervised professional experiences in agencies and businesses related to fisheries and wildlife professions.

Internship in Zoo and Aquarium Science
Fall, Spring, Summer. 3 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Zoology; Landscape Architecture. Administered by Department of Zoology. R: Open only to juniors or seniors. Approval of department.

Application of zoological experience in a zoo or aquarium setting outside the university.

Human Dimensions Research in Fisheries and Wildlife
Fall of even years. 3(3-0) Methods of surveying, educating and involving the public to achieve fish and wildlife management goals. Review of human dimensions research and current case studies.

Fisheries and Wildlife Laws and Regulation
Fall of odd years. 3(3-0) R: Open only to graduate students or to seniors with approval of department. Legal and regulatory systems related to fisheries and wildlife management. State, federal and international laws, policies and agencies. Nongovernmental organizations. Conservation of biodiversity and endangered species.

Analysis of Wildlife Populations
Spring of even years. 3(2-3) Statistical and ecological concepts, methods and computer techniques needed to analyze and interpret demographic data from fish and wildlife studies.

Ecology and Management of Waterfowl
Fall of even years. 3(2-3) R: (FW 412 and FW 424) Physiological, behavioral, and population characteristics of waterfowl. Current issues and management.

Conservation and Genetics
Fall of even years. 3(2-2) Interdepartmental with Plant Biology; Zoology. RB: (ZOL 341 or CSS 350 or ANS 314) Population and evolutionary genetic principles applied to ecology, conservation, and management of fish and wildlife at the individual, population, and species level.

Wetlands Law and Policy
Spring of odd years. 3(3-3) Interdepartmental with Resource Development; Agricultural Economics; Forestry. Administered by Department of Community, Agriculture, Recreation, and Resource Studies. 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.

Biogeography
Spring of odd years. 3(3-0) Interdepartmental with Geography; Zoology; Plant Biology. RB: Courses in evolution and ecology at undergraduate level. Geographical distributions of plants and animals; biogeographic realms. Ecological and evolutionary mechanisms determining distributional patterns. Application of biogeography to conservation problems.

Population Genetics, Genealogy and Genomics
Fall. 3(3-0) Interdepartmental with Forestry; Animal Science; Crop and Soil Sciences; Genetics; Horticulture. Administered by Department of Forestry. RB: Pre-calculus, basic genetics. Population genetic processes underlying patterns of molecular genetic variation. Genealogical approaches to the study of genomic diversity, phylogenetic reconstruction, and molecular ecology.

Applied Multivariate Statistical Methods
Fall. 4(3-2) Interdepartmental with Statistics and Probability. RB: (STT 422 or concurrent and MTH 314) SA: FOR 976 Application of multivariate methods to research problems. Hotelling's T-test, profile analysis, discriminant analysis, canonical correlation, principal components, principal coordinates, correspondence analysis, and cluster analysis.

Systems Modeling and Simulation
Fall of even years. 3(3-0) Interdepartmental with Biosystems Engineering; Forestry; Resource Development. 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.

Applied Systems Modeling and Simulation for Natural Resource Management
Spring of odd years. 3(2-2) Interdepartmental with Biosystems Engineering; Forestry; Resource Development; Zoology. RB: (FW 820 or BE 486 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.

Adaptive Management of Natural Resource Systems
Fall of odd years. 3(2-2) RB: (ZOL 355) and (FW 434) Principles and practices of adaptive environmental assessment and management. Applications to ecosystem and natural resource management.

Theoretical Ecology
Spring of even years. 3(2-2) Interdepartmental with Zoology; Plant Biology. RB: One course in ecology and calculus. Programming experience helpful. Theoretical ecology of animal behavior, population dynamics, and multispecies communities. Basic mathematical approaches and use of modeling software to perform mathematical functions and develop models.

Gender, Justice and Environmental Change: Issues and Concepts
Spring of odd years. 3(3-0) Interdepartmental with Anthropology; Forestry; Resource Development; Sociology; Geography. 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.

Gender, Justice, and Environmental Change: Methods and Application
Spring of even years. 3(3-0) Interdepartmental with Anthropology; Forestry; Resource Development; Sociology; Geography. 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 in international and intercultural contexts. Qualitative and quantitative methods for integrating social and environmental data.

Wildlife Nutrition
Fall of odd years. 3(2-2) R: Open only to graduate students in the Colleges of Agriculture and Natural Resources, and Natural Science. Nutritional ecology of wild species. Techniques for analyzing and Improving nutritional qualities.

Community and Conservation
Fall of even years. Summer of even years. 3 credits. Interdepartmental with Sociology; Resource Development. Administered by Department of Sociology. RB: Social Science methods, social science theory and environmental coursework. Use of experiential, participatory, field-based mode of inquiry to develop understanding of social and cultural issues associated with conservation. Understanding of different social positions and perspectives.

Techniques of Analyzing Unbalanced Research Data
Spring. 4(4-0) Interdepartmental with Animal Science; Crop and Soil Sciences; Forestry; Horticulture. Administered by Department of Animal Science. RB: (STT 464) R: Open only to graduate students in the College of Agriculture and Natural Resources. SA: ANS 943 Not open to students with credit in ANS 943. Linear model techniques to analyze biological research data characterized by missing and unequal number of observations in classes. Simultaneous consideration of multiple factors. Prediction of breeding values and estimation of population parameters from variance and covariance components.
873 Plankton Biology
Spring of odd years. 3(2-3) RB: (FW 472)
Biological plankton organisms in freshwater and marine systems. Field and laboratory methods. Individual research projects. Field trips required.

874 Advanced Fisheries Ecology and Food Web Management
Spring of odd years. 3(3-0) RB: (ZOL 355) and (FW 472) and (FW 479)
Application of food web theory to fisheries management. Evaluation of abiotic and biotic mechanisms as they affect aquatic community structure and food web dynamics.

875 Advanced Aquaculture
Fall of odd years. 3(3-0) RB: (FW 475)
Adaptations and responses of aquatic organisms to environmental change in aquaculture systems. Research methods and applications for aquaculture planning and management decisions.

877 Fish Population Dynamics
Fall of even years. 3(2-2) R: Open only to graduate students in the College of Agriculture and Natural Resources or College of Natural Science.
Quantitative analysis of fish populations. Evaluation, causes, and impacts of the rates of change in survival, growth, reproduction, and recruitment for fish populations and their yield.

879 Advanced Limnology
Spring of even years. 3(3-0) RB: (FW 472 or ZOL 431)
Theory and management of streams, rivers, lakes, reservoirs, and other deepwater habitats from ecosystem and landscape perspectives.

881 Building and Implementing Watershed Management Plans
Fall, Spring, Summer. 3(3-0) Fall: Virtual University. Spring: Virtual University. Summer: Virtual University. Interdepartmental with Resource Development; Forestry. Administered by Department of Community Agriculture, Recreation and Resource Studies. RB: (RD 324 and ZOL 355 and RD 452)
Problem definition, Data collection. Public consultation. Program evaluation. Case studies include watershed planning in the Great Lakes region.

882 Watershed Assessments and Tools
Fall, Spring. 3(3-0) Fall: Virtual University. Spring: Virtual University. Summer: Virtual University. Interdepartmental with Resource Development; Forestry. Administered by Department of Community Agriculture, Recreation and Resource Studies. RB: (RD 452 and RD 881)
Techniques for assessing and predicting physical, chemical, biological, and socioeconomic conditions within a watershed. Water quality monitoring. Bioassessment protocols. Pollutant loading models.

884 Outreach in Fisheries, Wildlife and Natural Resources Management
Spring of odd years. 3(3-0) Interdepartmental with ANR Education and Communication Systems. RB: Previous course in communications recommended.
Theory, research, practice and current issues in using outreach in fisheries, wildlife and natural resource management.

885 Leadership in Natural Resources and Environmental Management
Fall. 3(3-0) Interdepartmental with Forestry; Park, Recreation and Tourism Resources; Agricultural Economics.
Theory and practice of leadership in natural resource and environmental management. Integration across disciplinary and jurisdictional divisions.

891 Advanced Topics
Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 10 credits in all enrollments for this course.
In depth study of advanced topics in fisheries and wildlife.

892 Biodiversity
Spring. 2(2-0) A student may earn a maximum of 4 credits in all enrollments for this course. Interdepartmental with Zoology. Administered by Department of Zoology. RB: (ZOL 250)
Status of world biota and factors in the decline and extinction of major groups of plants and animals. Theory and design of natural reserves. Assessment and ecological meaning of diversity. Management for global and local diversity.

893 Seminar in Fisheries and Wildlife
Fall, Spring. 1(1-0) A student may earn a maximum of 7 credits in all enrollments for this course.
Study and research in advanced problems and current development in fisheries and wildlife.

897 Ecosystem Ecology
Spring. 4(4-0) Interdepartmental with Zoology; Plant Biology. Administered by Department of Zoology.
Structure and function of natural ecosystems. Succession, food web analysis, energy flow, nutrient cycling, and effects of human activities on ecosystems. Global environmental change. Ecosystem management and restoration.

898 Master's Research
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 10 credits in all enrollments for this course. R: Open only to graduate students in the Fisheries and Wildlife major.
Master's degree Plan B research paper.

899 Master's Thesis Research
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Open only to graduate students in the Fisheries and Wildlife major.
Master's thesis research.

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 Doctoral level graduate students in Fisheries and Wildlife.
Doctoral dissertation research.