662. *Principles of Family Practice IV*
Fall. 1(0-4) F M 632 or aproval of department.
Continuation of F M 652.

672. *Principles of Family Practice V*
Winter. 1(0-4) F M 632 or approval of department.
Continuation of F M 662.

682. *Principles of Family Practice VI*
Spring. 1(0-4) F M 632 or approval of department.
Continuation of F M 672.

692. *Principles of Family Practice VII*
Fall, Winter, Spring, Summer. 1(0-4) F M 632 or approval of department.
Continuation of F M 682.

FAMILY PRACTICE FMP

College of Human Medicine

500. *Preceptorship Training*
Fall, Winter, Spring, Summer. 1 to 3 credits. One year of medical school. Interdepartmental with and administered by the Department of Human Medicine.
Field experience in primary care taught by primary care physicians throughout the state to medical students from Michigan State University, University of Michigan and Wayne State University.

540. *Families in Crisis: A Clinical View*
Winter, Spring. 1 to 4 credits. May reenroll for a maximum of 4 credits. Student in medicine, nursing, or graduate student in psychology, counseling, social work or related field. Interdepartmental with the Department of Psychiatry.
Dynamics of family crises as might be experienced in health care settings. Videotapes, readings and small group discussions to illustrate family dynamics.

580. *Special Topics in Family Practice*
Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 18 credits. Approval of department.
Explore and study special aspects and modes of family-oriented health care.

610. *Family Practice Clerkship*
(H M 610.) Fall, Winter, Spring, Summer. 8 to 17 credits. May reenroll for a maximum of 34 credits. H M 602.
A clerkship in a model family practice unit with graded responsiblity and supervision in the care of families and their medical problems with emphasis on primary, continuing and comprehensive care.

FISHERIES AND WILDLIFE F W

College of Agriculture and Natural Resources

100. *Introduction to Fisheries and Wildlife*
Fall. 1(1-0) Freshmen Fisheries and Wildlife Majors.
Fisheries and wildlife as a profession. Academic and nonacademic needs to meet professional objectives, using current management problems as a focus for discussion.

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

202. *Soils and Man's Environment*
Winter. 3(3-0) Interdepartmental with the departments of Resource Development and Crop and Soil Sciences and Natural Resources. Administered by the Department of Crop and Soil Sciences.
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. *Fish and Wildlife of North America*
Winter. 5(3-4) B S 212 or approval of department.
Comparative study of fish and wildlife groups in North America, their significant life history stages, morphology, migrations, habitats and populations. Common species are identified in the laboratory.

305. *Principles of Fisheries and Wildlife Management*
Spring. 3(3-0) IDC 200 or approval of department. Not open to majors in fisheries-limnology or wildlife-ecology options.
Ecological concepts in management. Effects of regulations, refuges, stocking, species introduction, habitat manipulation, artificial feeding, genetic improvement, land use and control of predators, diseases and competitors on the production of fish and game.

328. *Vertebrate Pest Control*
Fall. 3(3-0) B S 212 or approval of department.
Role of wild vertebrate animals as agents damaging to man's interests; the concepts of damage and control; damage control techniques. Field trip.

340. *Wildlife Biometry*
Winter. 4(3-2) MTH 111, six credits in fisheries and wildlife.
Survey of statistical formulas, methods and applications of statistics to problems in fisheries and wildlife.

374. *Biological Oceanography*
Winter. 3(3-0) B S 212 or approval of department.
Biology of marine animals, with emphasis on physical, chemical and biological factors affecting their abundance and distribution.

376. *Introductory Limnology*
Winter. 3(3-0) B S 212; students may not receive credit for both F W 376 and F W 476.
Lake and stream ecology including effects of natural and man-induced perturbations on freshwater ecosystems.

402. *Environmental Conservation Education*
Fall, Winter, Spring, Summer. 4(3-2) Education majors or approval of department.
Nature, distribution and interrelationships of natural resources dictating the quality of man'a environment. Principles of resource use, study of natural objects and techniques of teaching in and about the environment.

404. *Fisheries and Wildlife Problems*
Fall, Winter, Spring, Summer. 1 to 5 credits. May reenroll for a maximum of 12 credits. B S 212; 6 credits of fisheries and wildlife; approval of department.
To give undergraduate majors an opportunity to study special topics in fisheries and wildlife.

420. *Ecology of Animal Parasites*
Summer. 6 credits. B S 212 or approval of department. Given at W. K. Kellogg Biological Station. Interdepartmental with the departments of Microbiology and Public Health and Zoology and administered by the Department of Microbiology and Public Health.
Parasitism of animals by protozoa, helminths and anthropods with emphasis on the interrelationships of host-parasite associations with the natural environments.

421. *Stream Ecology*
Fall. Summer--given at W. K. Kellogg Biological Station. 3(3-0) ENT 240 or approval of department. Interdepartmental with and administered by the Department of Entomology.
An in-depth examination of stream ecosystems--physical, chemical and biological aspects. Field work will be centered on local streams. Laboratory exercises will involve manipulations necessary for the detemination of population energy budgets, with special emphasis on aquatic insects. Field trips required.

424. *Wildlife Population Analyses*
Spring. 4(3-2) BOT 450 or ZOL 389, or concurrently.
Population mensuration; reproductive and survival rates, sex and age determination; handling and marking methods. Field trips.

425. *Wildlife Habitat Analyses*
Fall. 4(2-4) BOT 450 or ZOL 389 or FOR 220.
Evaluation of environmental factors affecting wildlife species; food and cover measurements. Determination of limiting factors.

426. *Ecology of Migratory Birds*
Fall. 4(2-4) ZOL 461 or approval of department.
Ecological, behavioral, and physiological characteristics affecting population parameters of migratory birds and applications of these relationships to the management of migratory wildlife resources.

427. *Wildlife Biology and Management*
Winter. 4(2-4) F W 424; ZOL 389 or BOT 450.
Ecology and management of resident wildlife on farm, forest and range lands.