533. Comprehensive Patient Evaluation IV
Spring. 2 to 6 credits. 532.
Interdepartmental course in physical examination skills. Stresses comprehensive, osteopathic evaluation of the patient. Includes preceptor assignment and appropriate systems biology clinical experiences.

534. Comprehensive Patient Evaluation and Management I
Summer. 2 to 6 credits. 533.
Interdepartmental course in physical examination skills, diagnosis and patient management. Stresses comprehensive, osteopathic evaluation and management of the patient. Includes preceptor assignment and appropriate systems biology clinical experiences.

535. Comprehensive Patient Evaluation and Management II
Fall. 2 to 6 credits. 533.
Continuation of 534.

536. Comprehensive Patient Evaluation and Management III
Winter. 2 to 6 credits. 533.
Continuation of 535.

537. Comprehensive Patient Evaluation and Management IV
Spring. 2 to 6 credits. 533.
Continuation of 536.

551. Systems Biology I
(O M 550.) Fall. 3 to 12 credits. Admission to a professional medical program. A multidisciplinary approach to the hematopoietic systems providing a functional integration of basic science and clinical information.

552. Systems Biology II
Spring. 3 to 6 credits. Admission to a professional medical program. A multidisciplinary approach to the integumentary system providing a functional integration of basic science and clinical information.

553. Systems Biology III
(O M 553.) Spring. 5 to 15 credits. Admission to a college of medicine or approval of instructor. A multidisciplinary approach to the nervous system providing a functional integration of basic science and clinical information.

554. Systems Biology IV
(O M 552.) Fall. 5 to 15 credits. Admission to a professional medical program. Continuation of 553 with emphasis on multidisciplinary approach to the cardiovascular system.

555. Systems Biology V
(O M 553.) Winter. 5 to 10 credits. Admission to a professional medical program. Continuation of 554 with emphasis on multidisciplinary approach to the respiratory system.

556. Systems Biology VI
(O M 553.) Winter. 5 to 10 credits. Admission to a professional medical program. Continuation of 555. This paper will represent a multidisciplinary approach to the urinary system.

557. Systems Biology VII
(O M 554.) Spring. 5 to 15 credits. Admission to a professional medical program. Continuation of 556 with emphasis on multidisciplinary approach to the gastrointestinal system and metabolism.

558. Systems Biology VIII
(O M 555.) Summer. 5 to 15 credits. Admission to a professional medical program. Continuation of 557 with emphasis on multidisciplinary approach to the growth and development within (but not limited to) the field of pediatrics, obstetrics and gynecology.

590. Special Problems
Fall, Winter, Spring, Summer. 1 to 3 credits. May re-enroll for a maximum of 12 credits. Approval of instructor. Each student will work under direction of a faculty member on an experimental, theoretical or applied problem.

610. The Osteopathic Examination I
(F M 630.) Fall. 10-4) Admission to a college of medicine or approval of instructor. Instruction in the osteopathic examination.

611. The Osteopathic Examination II
(F M 640.) Winter. 10-4) 612 or approval of instructor. Continuation of 610.

612. The Osteopathic Examination III
(F M 650.) Spring. 10-4) 611 or approval of instructor. Continuation of 611.

613. The Osteopathic Examination IV
(F M 660.) Summer. 10-4) 612 or approval of instructor. Continuation of 612.

614. The Osteopathic Examination V
(F M 670.) Winter. 10-4) 612 or approval of instructor. Continuation of 613.

615. The Osteopathic Examination VI
(F M 680.) Winter. 10-4) 612 or approval of instructor. Continuation of 614.

616. The Osteopathic Examination VII
(F M 690.) Spring. 10-4) 613, 614, 615 or approval of instructor. Continuation of 615.

620. Systems Biology — Directed Studies
Fall, Winter, Spring, Summer. 1 to 15 credits. Admission to a professional medical program or approval of coordinator. A directed study in systems biology for the continuing advanced student or remediation of any systems biology: hematopoietic, integumentary, nervous, cardiovascular, respiratory, urinary, gastrointestinal, growth and development.

Packaging — Descriptions of Courses

PACKAGING

College of Agriculture and Natural Resources

210. Principles of Packaging
Fall, Winter, Spring, Summer. 3(0-0)
A general course in packaging principles covering the growth and development of the field, and the technological and motivational problems involved in present day packaging. Consideration will be given to the basic functions of the package and their relation to the needs and wants of our society.

320. Packaging Materials
Fall. 4(4-0)
Common packaging materials including wood, paper, paperboard, plastics, metal foils and sheets, glass, adhesives, cushioning media; their basic properties in relation to performance of package.

330. Package Printing
Winter. 3(0-0) 320 or approval of school.
Basic printing processes used for packaging materials. Advantages, disadvantages and identification of these printing methods.

340. Packaging and the Environment
Winter. 4(4-0)
Broad study of the effects of packaging on environmental quality, including solid waste, air and water quality, laws, economics, energy considerations and resources conservation.

422. Packaging Systems
Fall, Winter. 4(4-0) 320 or approval of school.
Design, use and evaluation of packages and packaging systems. A one-day field trip is required.

423. Dynamics of Packaging
Spring. 4(3-3) 422 or approval of school.
A study of the protective function of the packaging systems in relation to their environment and shock and vibration isolation methods. A one-day field trip is required.

424. Packaging Problems
Fall, Winter, Spring, Summer. 1 to 3 credits. May re-enroll for a maximum of 9 credits. 422, 2.5 grade-point average and approval of school.
Development of solutions to specific packaging problems.

425. Packaging Process Analysis
Winter. Spring. 4(4-0) CPS 110.
The integrated study of the operation structure and control of the packaging and package-making process. A one-day field trip is required.

427. Packaging Materials and Systems Laboratory
Fall, Winter, Spring. 3(1-6) 320, 422 or approval of school.
302. Environmental Attitudes and Concepts
Fall. 3(3-0)

304. Designs for Recreation: Nature and Man
Fall, Spring. 3(3-0)
Approval of department.
Design strategies are used to demonstrate relationships between characteristics of the environment and man’s use of it. Integration of work, leisure, and recreation uses within environmental potentials and limits is emphasized.

344. Leisure and Recreation Resources
Fall, Spring. 3(3-0)
Leisure in relation to park and recreation resources. History and philosophy, significance in modern society, and impact on urban and natural resources developments.

444. Park and Recreation Area Design
Fall, Winter. 3(3-0)
Planning and design principles of space, scale, and circulation applied to the use of park and recreation areas and facilities. Field trip required.

446. Field Studies in Park Administration
Fall. 3 credits. Approval of department.
Investigation and analysis of outstanding park and recreation programs. Visits to areas under local, state, and federal jurisdiction. Evaluation of administrative practices, area management, and operation policies. Conducted as a traveling class with agency assistance.

449. Recreation Land Management
Winter. 3(3-0) Not open to majors.
Fundamentals of outdoor recreation resource management. Planning, development, and administration of programs and facilities.

451. Environmental Interpretation II: Methods and Devices
Spring. 4(3-1) 351.
Methodology and equipment used in information transmission in natural, historic, and scenic areas. Site selection and development criteria for natural resource interpretation.

454. Senior Proseminar
Winter. 1(1-0) Senior majors.
Seminars on current professional problems and literature.

801. Dimensions of Recreation and Leisure
Fall. 3(3-0) 344 or approval of department.
Concepts of recreation and leisure in the United States and their implications for professional development. Extensive reading into concepts, definitions, values, educational components and historic roots of recreation and leisure.

842. Park and Recreation Policy
Winter. 3(3-0) Interdepartmental with the Department of Resource Development.
Recreation, leisure and work concepts. Determination of need for recreation facilities. Factors affecting public and private allocation of resources for provision of needed facilities.