534. Clinical Science V

Fall. 1(0-3) Admission to a college of medicine.

A clinic-based program providing additional emphasis on history taking and physical examination as well as developing fundamental abilities in diagnosis and problem solving in the clinic setting.

535. Clinical Science VI

Winter. 1(0-3) Admission to a college of medicine.

A continuation of 534.

536. Clinical Science VII

Spring. 1(0-3) Admission to a college of medicine.

Continuation of 535.

537. Clinical Science VIII

Summer. 1(0-3) Admission to a college of medicine.

Continuation of 536.

550. Systems Biology I Spring. 5 to 15 credits. 502.

A multidisciplinary approach to the hematopoietic systems providing a functional integration of basic science and clinical information.

551. Systems Biology II

Summer. 5 to 15 credits

Continuation of 550 with emphasis on a multidisciplinary approach to the nervous system.

552. Systems Biology III

Fall. 5 to 15 credits.

Continuation of 551 with emphasis on multidisciplinary approach to the cardiovascular system,

553. Systems Biology IV

Winter. 5 to 15 credits.

Continuation of 552 with emphasis on multidisciplinary approach to the respiratory, renal and urinary systems.

554. Systems Biology V

Spring 5 to 15 credits.

Continuation of 553 with emphasis on multidisciplinary approach to the gastrointestinal system.

555. Systems Biology VI

Summer. 5 to 15 credits.

Continuation of 554 with emphasis on multidisciplinary approach to the study of pediatrics, obstetrics and gynecology.

600. Clinical Science Practicum

Fall, Winter, Spring, Summer. 15 credits. May re-enroll for a maximum of 60 credits.

A clinic oriented course covering the major areas of medical practice including involvement in Family Practice and Community Health Services.

620. Directed Studies

Fall, Winter, Spring, Summer. 1 to 6 credits. May re-enroll for a maximum of 24 credits. Approval of department.

Individual or group work on special problems in medicine.

OBSTETRICS, GYNECOLOGY AND REPRODUCTIVE BIOLOGY* OGR

College of Human Medicine

608. Obstetrics/Gynecology Clerkship

Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 43 credits. H M 602.

Experience with gynecologic and obstetrical patients, in in-patient and out-patient settings, under the direction of community practitioners and members of the MSU faculty.

PACKAGING

PKG

College of Agriculture and Natural Resources

210. Principles of Packaging

Fall, Winter, Spring, Summer. 3(3-0)

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, Spring. 3(3-0)

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.

321. Packaging Materials Laboratory Fall, Spring. 2(0-6) 320 or concur-

rently.

Problems and techniques of measuring the properties of packaging materials and the use of those measurements.

330. Graphics for the Packaging Industry

Winter, 4(3-3) 320 or approval of school.

Designing graphics for specific types of printing processes and for various packaging materials. Considerations in ink formulation, identification of the various printing processes used, and the advantages and disadvantages of various reproduction methods as used for packaging.

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(3-3) 320 or ap-

Design, use and evaluation of packages and packaging systems. A one-day field trip is required.

°Established July 1, 1971.

423. Dynamics of Packaging

Spring. 4(3-3) 422, MTH 113, or approval of school.

A study of the protective function of the packaging systems in relation to their environment and shook 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(3-3) 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.

428. Packaging Development

Fall, Spring. 4(3-2) 422 or approval

A study of the functions of each area concerned with the development of packages to meet present-day requirements of protection and merchandising.

430. Packaging Machinery

Spring. 4(3-3) 422 or approval of school.

The components for automated packaging lines, and auxiliary materials handling equipment, including consideration of design, selection, specification and operation of machinery for the package-making and package-filling operations.

463. Seminar

Fall. 2(0-4) Must have job experience to enroll.

Detailed report on work performed in practical experience or outside packaging projects.

801. Package Design

Fall. 4(3-3)

Advanced work in the development of the graphic and structural design of packages.

834. Special Investigations in Packaging

Fall, Winter, Spring, Summer. Variable credit.

899. Research

Fall, Winter, Spring, Summer. Variable credit. Approval of school.

Building Construction

ВС

200. Dynamics of American Housing Fall, Winter, Spring, Summer. 3(3-0)

Impact of housing on the economic and social welfare of America. Analysis of the residential building industry and its problems in providing adequate housing.

312. Structural Design

Fall. 4(4-0) 200 or approval of department.

Consideration of structural design systems as used in light construction.

412. Housing Utilities Design

Winter. 4(4-0)

Design of and planning for mechanical and electrical utilities in housing.