OSTEOPATHIC MEDICINE

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501. Clinical Skills I
Fall, 3 credits
P: OST 500, 501; R: Open only to graduate-professional students in College of Osteopathic Medicine.
QA: OST 5300ST, 531

502. Clinical Skills II
Spring, 3 credits
P: OST 501 R: Graduate-professional students in College of Osteopathic Medicine.
Continuation of OST 501.
QA: OST 531

504. Doctor/Patient Relationship I
Fall, 1 credit
P: OST 504 R: Graduate-professional students in College of Osteopathic Medicine.
Basic of interpersonal communication related to patient interaction with patients.
QA: OST 5300ST, 531

505. Doctor/Patient Relationship II
Spring, 1 credit
P: OST 504 R: Graduate-professional students in College of Osteopathic Medicine.
Skills of interviewing patients for the purpose of gathering information, giving information, and patient motivation.
QA: OST 5301ST, 532

511*. Systems Biology: Neuroumusculoskeletal I
Summer, 2 credits
P: ANT, PSL; R: Open only to graduate-professional students in College of Osteopathic Medicine.
A multidisciplinary approach to the neuromusculoskeletal system providing functional integration of basic science and clinical information along with osteopathic manual medicine.
QA: OST 553, 614 OST 615

512*. Systems Biology: Neuroumusculoskeletal II
Fall, 2 credits
P: OST 511 R: College of Osteopathic Medicine students only.
A multidisciplinary approach to the neuromusculoskeletal system providing functional integration of basic science and clinical information along with osteopathic manual medicine.
QA: OST 560, 553, 614 OST 615

513*. Systems Biology: Neuroumusculoskeletal III
Spring, 2 credits
P: OST 512 R: College of Osteopathic Medicine students only.
A multidisciplinary approach to the neuromusculoskeletal system providing functional integration of basic science and clinical information along with osteopathic manual medicine.
QA: OST 560, 553, 614 OST 614

516*. Systems Biology: Behavioral I
Fall, 2 credits
P: ANT, PSL; R: Open only to graduate-professional students in College of Osteopathic Medicine.
A multidisciplinary approach to the behavior function on normal human development, behavioral and cultural medicine, and chronic illness and disability.
QA: OST 550

517*. Systems Biology: Behavioral II
Spring, 2 credits
P: ANT, PSL; R: Open only to graduate-professional students in College of Osteopathic Medicine.
A multidisciplinary approach to the behavior function on psychopathology and substance abuse.
QA: OST 551

531*. Systems Biology: Hematopoietic
Fall, 2 credits
P: BCH 521, 522, 532, 551 R: College of Osteopathic Medicine students only.
A multidisciplinary approach to the behavior function in an integrated clinical case format.
QA: PSC 520, 550

532*. Systems Biology: Gastrointestinal
Fall, 2 credits
P: ANT, PSL; R: College of Osteopathic Medicine students only.
A multidisciplinary approach to the gastrointestinal system providing functional integration of basic science and clinical information.
QA: OST 550

533*. Systems Biology: Endocrinology
Fall, 2 credits
P: ANT, PSL; R: College of Osteopathic Medicine students only.
A multidisciplinary approach to the endocrinology system providing functional integration of basic science and clinical information.
QA: OST 550

534. Integrative Clinical Correlations I
Fall, 1 credit
P: Open only to graduate-professional students in College of Osteopathic Medicine.
Application of basic science information, problem-solving, and clinical skills in an integrated clinical case format. Case presentations by students and faculty.

535. Integrative Clinical Correlations II
Fall, 1 credit
P: Open only to graduate-professional students in College of Osteopathic Medicine.
Application of basic science information, problem-solving, and clinical skills in an integrated clinical case format. Case presentations by students and faculty.

E-138 Courses with an asterisk (*) have not been approved by the University Committee on Curriculum.
Osteopathic Medicine

544*. Integrative Clinical Correlations IV
Fall, 1(0-0-2)
P: Unit I courses
C: OST 522, 512, 523
R: College of Osteopathic Medicine students only
A multidisciplinary approach to the application of basic science information and osteopathic principles to the solution of clinical problems.

545*. Integrative Clinical Correlations V
Spring, 1(0-2)
P: Unit I courses
OST 544 C: OST 513, 524, 525 R: College of Osteopathic Medicine students only
A multidisciplinary approach to the application of basic science information and osteopathic principles to the solution of clinical problems.

554*. Systems Biology: Cardiorespiratory
Spring, 3(3-0)
P: ANT 551, 552; BCH 551; PSI 501; MTH 551; PRH 556; PHM 553 R: College of Osteopathic Medicine students only
A multidisciplinary study of the cardiovascular and respiratory systems in health and disease.
QA: OST 554

555*. Systems Biology: Respiratory
Spring, 3(3-0)
P: ANT 551; PSI 501; MTH 552; BCH 521; PHM 553 C: Clinical Correlations R: College of Osteopathic Medicine students only
Discussion of pulmonary physiology, diagnosis and treatment of clinical pulmonary and ENT disease states, review of anatomy, advanced airway management skills and advanced cardiac life support (ACLS).
QA: ANT 565, PSI 500A, MPH 521, BCH 502PHM 550 QA: OST 555

Packaging

210. Principles of Packaging
Fall, Spring, Summer. 3(3-0)
Packaging systems, materials and forms and their relationship to the needs and wants of society.

310*. Technical Principles and Dynamics for Packaging
Fall, Spring. 4(3-2)
PH 232 or MTH 122, PHY 232 R: Open only to Packaging majors.
Testing, evaluating, and predicting package performance under various environmental conditions. Methods of protection against shock, vibration, and other environmental hazards.
QA: PHY 232, MTH 112 or MTH 122 QA: PKG 321 PKG 423

320*. Plastic and Glass Packaging
Fall, Spring, 4(3-2)
P: CEM 143, PKG 310 R: Open only to Packaging majors.
Physical and chemical properties of plastic and glass and their relationship to selection, design, manufacture, performance and evaluation of packages.
QA: PKG 321 CEM 143 QA: PKG 321

325*. Paper and Metal Packaging
Fall, Spring. 4(3-2)
P: CEM 143, PKG 310 R: Open only to Packaging majors.
Physical and chemical properties, manufacture, conversion and use of wood, paper, board, metal and related components. Design, use and evaluation of packages.
QA: PKG 321 CEM 143 QA: PKG 332

330*. Package Printing
Fall. 3(3-0)
P: PKG 310 R: Open only to Packaging majors.
Methods of printing packages including copy preparation, design, electronic imaging, aesthetics, camera use, and effects of package materials. Production of printed packages including quality control, economics, and environmental issues.
QA: PKG 321 QA: PKG 330

415*. Packaging Decision Systems
Fall, Spring, 3(2-2)
P: MTH 110 or MTH 116 R: Junior or above
Packaging decision making, structure and use of decision systems in the packaging function for management, specification, production and testing. Use of microcomputers to support decision making.
QA: MTH 109 OR MTH 111 QA: PKG 467

430*. Packaging Processes
Fall, Spring. 4(3-2)
P: PKG 320, PKG 325 R: Open only to Packaging majors.
QA: PKG 321 PKG 332 QA: PKG 430 PKG 425

440*. Automation in Packaging
Fall. 3(3-0)
P: MTH 124 R: Not open to freshman seniors and sophomores.
Automated systems: configurations, components, sensors, drive mechanisms, and control systems. Robotic safety. Material handling, line inspection, vision systems, automated storage and retrieval systems. Economics. Field trips required.
QA: MTH 112 QA: PKG 465

450*. Pharmaceutical Packaging
Fall, Spring. 4(3-2)
P: PKG 320 or PKG 325. Special requirements for pharmaceutical packaging and medical devices. Evaluation of package systems and packaging procedures.
QA: PKG 331 OR PKG 332 QA: PKG 438

455*. Food Packaging
Fall, Spring. 3(3-1)
P: PKG 320, PKG 325 R: Open only to Packaging majors.
Food packaging systems related to specific products and processes. Product composition: problems and packaging solutions, shelf life considerations, and packaging lines.
QA: PKG 331 PKG 332 QA: PKG 455

460*. Distribution Packaging and Performance Testing
Spring. 3(3-2)
P: PKG 310.
Interrelationships between packaging and distribution systems. Transportation, material handling, warehousing, logistics and management systems. Performance testing and industry practice. Package container design and testing.
QA: PKG 321 PKG 433 QA: PKG 435 PKG 433

475*. Packaging Economics
Fall. 3(3-0)
P: EC 201 or EC 202
Economic issues in packaging as they relate to policies of the firm and of government. Relationships between economic policy and societal issues.
QA: EC 401 OR EC 402 QA: PKG 429

480*. Packaging Laws and Regulations
Fall, Spring. 3(3-0)
P: PKG 320 or PKG 325.
History and development of packaging laws and regulations. Relationships among law, government regulation and commercial regulation. Effect of current laws and regulations on packaging.
QA: PKG 331 OR PKG 332 QA: PKG 450

485*. Packaging Systems Development
Fall. Spring. 3(3-0)
P: PKG 432 R: Open only to Packaging majors.
Package development including selection, design and implementation of package systems for protection, storage, merchandising, use and disposal.
QA: PKG 423 PKG 425 QA: PKG 438

490*. Directed Studies in Packaging
Fall, Spring, Summer. 1 to 3 credits.
May enroll for a maximum of 6 credits.
P: PKG 320, PKG 325. R: Open only to Packaging majors. Approval of department; application required.
Development of solutions to specific packaging problems. Supervised individual study.
QA: PKG 331 PKG 332 QA: PKG 424

491*. Special Topics
Fall, Spring, Summer. 1 to 4 credits.
May enroll for a maximum of 8 credits.
Selected topics of current interest.
QA: PKG 440

492*. Senior Seminar
Spring. 3(3-0)
P: PKG 310 R: Open only to seniors in Packaging.
Seminar on current packaging issues, business organization and operations, and accepted practices in a corporate environment.
QA: PKG 463

805*. Advanced Packaging Dynamics
Spring. 2(2-2)
P: PKG 310
QA: PKG 403 QA: PKG 823

815*. Permeability and Shelf Life
Spring. 2(2-2)
P: PKG 320, PKG 325, MTH 124 or MTH 132
Relationship between the storage life of packaged food and pharmaceutical products and the gas, moisture, and organo vapor permeability of packages in various environments.
QA: PKG 331 PKG 332 MTH 113 QA: PKG 820

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