ISP—Integrative Studies in Physical Science

202 Applications of Environmental and Organismic Biology
Fall, Spring, Summer. 3(3-0) P:M: (MTH 103 or MTH 110 or concurrently or PHY 116 or concurrently or MTH 124 or concurrently or MTH 132 or concurrently or PHY 201 or concurrently or PHY 202 or concurrently or STT 200 or concurrently or PHY 201 or concurrently) or designated score on Mathematics placement test.

Historical and recent development of ideas about behavior, ecological, and evolutionary processes. Critical evaluation of the use and misuse of human understanding of nature, emphasizing recent findings.

204 Applications of Biomedical Sciences
Fall, Spring, Summer. 3(3-0) P:M: (MTH 103 or concurrently or MTH 110 or concurrently or MTH 116 or concurrently or MTH 124 or concurrently or MTH 132 or concurrently or PHY 201 or concurrently or STT 200 or concurrently or STT 201 or concurrently) or designated score on Mathematics placement test.

Conceptual and technological advances in biology. Ethical, legal, social and economic issues which accompany these advances.

206H Human Biology and Society
Fall, Spring. 3(3-0) P:M: (MTH 103 or concurrently or MTH 110 or concurrently or MTH 116 or concurrently or MTH 124 or concurrently or MTH 132 or concurrently or PHY 201 or concurrently or PHY 202 or concurrently or PHY 203 or concurrently or PHY 204 or concurrently) or designated score on Mathematics placement test.

Conceptual and technological advances in biology. Ethical, legal, social and economic issues which accompany these advances.

208L Applications in Biological Science Laboratory
Fall, Spring, Summer. 2(1-2) P:M: (ISP 205 or concurrently or MTH 201 or concurrently or ISB 202 or concurrently or ISB 204 or concurrently) or designated score on Mathematics placement test.

Conceptual and technological advances in biology. Ethical, legal, social and economic issues which accompany these advances.

209 World of Chemistry
Fall, Spring. 3(3-0) P:M: (MTH 103 or MTH 110 or concurrently or MTH 116 or MTH 124 or concurrently or MTH 132 or concurrently or PHY 201 or concurrently or PHY 202 or concurrently or PHY 203 or concurrently or PHY 204 or concurrently) or designated score on Mathematics placement test.

Conceptual and technological advances in biology. Ethical, legal, social and economic issues which accompany these advances.

209L World of Chemistry Laboratory
Fall, Spring. 2(1-2) P:M: (ISP 205 or concurrently or MTH 201 or concurrently)

Chemical combinations and reactivity with respect to such materials as acids, bases, dyes, foods, and detergents.
209 The Mystery of the Physical World
Fall, Spring, Summer. 3(3-0) P.M.: (MTH 103 or MTH 110 or MTH 116 or LBS 117 or MTH 106 or concurrently or MTH 124 or MTH 132 or MTH 201 or concurrently or LBS 200 or concurrently or STT 201) or designated score on Mathematics placement test.

Physical phenomena: optics, mechanical systems and electromagnetics.

210 Society and the Individual (D)
Fall, Spring, Summer. 3(3-0) P.M.: (SP 209 or concurrently)

Types, causes and consequences of stratification in human societies. Age, class, gender, race and other factors which define social position. Education, occupation, political economy.

210L The Mystery of the Physical World Laboratory
Fall, Spring, Summer. 2(1-2) P.M.: (ISP 209 or concurrently)

213H Navigating the Universe
Fall. 3(3-0) Interdepartmental with Physics. P.M.: (MTH 103 or MTH 110 or MTH 116 or MTH 106 or MTH 124 or MTH 132 or MTH 201 or LBS 117 or STT 200 or STT 201) or designated score on Mathematics placement test. RB: High school physics, high school algebra, and high school trigonometry.

Aspects of classical physics, relativity, quantum mechanics, and standard models of elementary particle physics and cosmology. How notions of reality and standards for forming acceptable knowledge claims have changed.

215 The Science of Sound
Fall, Spring. 3(3-0) P.M.: (MTH 103 or MTH 110 or MTH 116 or LBS 117 or MTH 106 or concurrently or MTH 124 or concurrently or MTH 132 or concurrently or MTH 201 or concurrently or STT 200 or concurrently or STT 201) or designated score on Mathematics placement test.

The science of speech, communication, musical instruments, room acoustics, and analogue and digital audio. Integrating the physical, physiological, and psychological principles involved.

INTEGRATIVE STUDIES IN SOCIAL, BEHAVIORAL AND ECONOMIC SCIENCES

Center for Integrative Studies
in Social Science
College of Social Science

210 Society and the Individual (D)
Fall, Spring, Summer. 4(4-0)

Evolution of human behavior with an emphasis on the individual and society. Family and kinship, social organizations. Societal types, personality, and the life cycle.

215 Social Differentiation and Inequality (D)
Fall, Spring, Summer. 4(4-0)

Types, causes and consequences of stratification in human societies. Age, class, gender, race and other factors which define social position. Education, occupation, political economy.

220 Time, Space and Change in Human Society (D)
Fall, Spring, Summer. 4(4-0)

Evolutionary, ecological, and spatial theories of adaptation and change. Cultural evolution from prehistoric foraging to the post-industrial age. Continuity and change in the emergence and development of contemporary ways of life.

225 Power, Authority, and Exchange (D)
Fall, Spring, Summer. 4(4-0)


310 People and Environment (I)
Fall, Spring, Summer. 4(4-0) P.M.: (ISS 210 or ISS 215 or ISS 220 or ISS 225)

Contemporary issues related to the interaction of socio-cultural and ecological systems. Global, regional, national and local environmental problems and responses.

315 Global Diversity and Interdependence (I)
Fall, Spring, Summer. 4(4-0) P.M.: (ISS 210 or ISS 215 or ISS 220 or ISS 225)


320 World Urban Systems (I)
Fall, Spring, Summer. 4(4-0) P.M.: (ISS 210 or ISS 215 or ISS 220 or ISS 225)

Patterns of urbanization in various areas of the world over time. Linkage within and between urban centers. Economic, political and social/behavioral accommodation and adaptation to urban growth and change.

325 War and Revolution (I)
Fall, Spring, Summer. 4(4-0) P.M.: (ISS 210 or ISS 215 or ISS 220 or ISS 225)

Patterns of individual and collective action. Violence and conflict resolution.

330A Africa: Social Science Perspectives (I)
Fall, Spring, Summer. 4(4-0) P.M.: (ISS 210 or ISS 215 or ISS 220 or ISS 225)

Comparative study of geography, cultures, politics, and economies of Africa. Diversity and change.

330B Asia: Social Science Perspectives (I)
Fall, Spring, Summer. 4(4-0) P.M.: (ISS 210 or ISS 215 or ISS 220 or ISS 225)

Comparative study of geography, cultures, politics, and economies of Asia. Diversity and change.

330C Latin America: Social Science Perspectives (I)
Fall, Spring, Summer. 4(4-0) P.M.: (ISS 210 or ISS 215 or ISS 220 or ISS 225)

Comparative study of geography, cultures, politics, and economies of Latin America. Diversity and change.

335 National Diversity and Change: United States (N)
Fall, Spring, Summer. 4(4-0) P.M.: (ISS 210 or ISS 215 or ISS 220 or ISS 225) SA: ISS 335A

Racial, ethnic, class, gender, and other forms of diversity in the United States. Systems of dominant-minority relations and forms of prejudice and discrimination. Scope of and responses to group inequalities.

336 Canada: Social Science Perspectives (I)
Spring. 4(4-0) P.M.: (ISS 210 or ISS 215 or ISS 220 or ISS 225) SA: ISS 335B


INTERNAL MEDICINE

Department of Internal Medicine
College of Osteopathic Medicine

512 Biostatistics and Epidemiology
Summer. 2(2-0) R: Open only to graduate or graduate-professional students in the Colleges of Osteopathic Medicine, Human Medicine, and Nursing or approval of department. SA: CMS 512, OM 512

Medical literature to illustrate statistical reasoning and research design. Emphasis on analysis rather than computation. Prospective or retrospective studies. Sensitivity, specificity, and predictive values. Epidemiologic terminology.

590 Special Problems in Internal Medicine
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 48 credits in all enrollments for this course. R: Open only to graduate-professional students in the College of Osteopathic Medicine. Approval of department.

Students work under faculty direction on an experimental, theoretical, or applied problem.

602 Primary Care Ambulatory Clerkship
Fall, Spring, Summer. 4(4-0) R: Open only to graduate or graduate-professional students in the College of Osteopathic Medicine. Approval of department. SA: CMS 602, OM 602

4-week clerkship in family medicine, pediatrics, and obstetrics and gynecology. Limited to undergraduate students in the College of Osteopathic Medicine. Approval of department.

618 Clinical Tropical Medicine
Fall, 2(2-0) SA: CMS 618

Selected topics such as African AIDS, malaria, onchocerciasis, tuberculosis, and schistosomiasis. Pathophysiology, treatments, epidemiology, current research, and controversies.

620 Directed Studies
Fall, Spring, Summer. 1 to 20 credits. A student may earn a maximum of 48 credits in all enrollments for this course. R: Open only to graduate-professional students in the College of Osteopathic Medicine upon completion of Units I and II.

Individual or group work on special problems in medicine related to internal medicine.