

- 209 The Mystery of the Physical World**
 Fall, Spring, Summer. 3(3-0) P: (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 concurrently) or designated score on Mathematics placement test.
 Laws of physics through demonstrations and analyses of every day phenomena. Optics, mechanical systems and electromagnetic phenomena.
- 209L The Mystery of the Physical World Laboratory**
 Fall, Spring, Summer. 2(1-2) P: (ISP 209 or concurrently)
 Physical phenomena: optics, mechanical systems and electromagnetics.
- 213H Navigating the Universe**
 Fall. 3(3-0) Interdepartmental with Physics. P: (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 concurrently) or designated score on Mathematics placement test. RB: High school physics, high school algebra, and high school trigonometry
 Philosophical and biographical history of physics. Comparing physics of fields, relativity, quantum mechanics, elementary particle physics, and cosmology to art as an alternate way of understanding and representing the world.
- 215 The Science of Sound**
 Fall, Spring. 3(3-0) P: (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.
- 217 Water and the Environment**
 Fall, Spring. 3(3-0) P: (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 concurrently)
 Application of the scientific method to identification and solution of environmental problems related to water.
- 217L Water and the Environment Lab**
 Fall, Spring. 2(1-2) P: (ISP 217 or concurrently)
 Application of the scientific method to identification and solution of environmental problems related to water.
- 221 Earth Systems: Energy**
 Fall, Spring, Summer. 3(3-0) P: (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 concurrently)
 Flow of energy into, through, and out of the earth's lithosphere, hydrosphere, atmosphere, and biosphere. Energy, entropy, and life processes. Global warming, greenhouse effect, and contemporary issues.

INTEGRATIVE ISS STUDIES IN SOCIAL, BEHAVIORAL AND ECONOMIC SCIENCES

Center for Integrative Studies in Social, Behavioral and Economic 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)
 Power, authority, and exchange in organizing societies. Costs and limitations of power. Institutionalization of authority. Systems of exchange: planned vs. market economies.
- 310 People and Environment (I)**
 Fall, Spring, Summer. 4(4-0) P: (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: (ISS 210 or ISS 215 or ISS 220 or ISS 225)
 Contemporary issues in global political economy. Social forces and competing ideologies in a world context. Global resource distribution and development strategies. National identities and transnational linkages. First and Third World dichotomies.
- 320 World Urban Systems (I)**
 Fall, Spring, Summer. 4(4-0) P: (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: (ISS 210 or ISS 215 or ISS 220 or ISS 225)
 Social conflict, wars and revolutions. Patterns of individual and collective action. Violence and conflict resolution.

- 330A Africa: Social Science Perspectives (I)**
 Fall, Spring, Summer. 4(4-0) P: (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: (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: (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: (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: (ISS 210 or ISS 215 or ISS 220 or ISS 225) SA: ISS 335B
 Canadian political, economic, and social institutions. Ethnic and other forms of diversity in Canada. North American national comparisons.

INTERNAL MEDICINE IM

Department of Internal Medicine College of Osteopathic Medicine

- 400 Introduction to Emergency Medicine Research**
 Fall, Spring. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. P: Completion of Tier I writing requirement. RB: Pre-professional health science. R: Approval of department.
 Research experience in data collection, data entry, statistical analysis and manuscript preparation. Opportunity for work with an emergency medicine resident and faculty member on a single research project.
- 401 Clinical Emergency Medicine Research**
 Fall, Spring. 4(2-4) A student may earn a maximum of 8 credits in all enrollments for this course. RB: Pre-professional health science. R: Open only to juniors or seniors. Approval of department.
 Research experience in data collection, data entry, and statistical analysis at an off-campus hospital involving multiple projects.
- 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.