

**Descriptions—Integrative Studies in Physical Science
of
Courses**

**205L. Visions of the Universe
Laboratory**

Fall, Spring, Summer. 1(0-2) C: ISP 205 concurrently.

Observations of the sky, laboratory experiments, and computer simulations exploring the development of the modern conception of the universe.

207. World of Chemistry

Fall, Spring, Summer. 3(3-0) P: MTH 110 or MTH 116 or MTH 120 or MTH 124 or MTH 201 or STT 200 or STT 201 or concurrently or designated score on mathematics placement test.

The language, concepts, models and techniques of chemical science, including atomic theory; nuclear energy; acids; chemicals in air, water, food and biological systems.

207L. World of Chemistry Laboratory

Fall, Spring, Summer. 1(0-2) C: ISP 207 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: MTH 110 or MTH 116 or MTH 120 or MTH 124 or MTH 201 or STT 200 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. 1(0-2) C: ISP 209 concurrently.

Physical phenomena: optics, mechanical systems and electromagnetics.

211. Guide to the Atom

Fall, Spring, Summer. 3(3-0) P: MTH 110 or MTH 116 or MTH 120 or MTH 124 or MTH 201 or STT 200 or STT 201 or concurrently or designated score on mathematics placement test.

Historical and recent development of knowledge about and models of the fundamental structures of all matter. Physical laws governing the structure of matter.

215. The Science of Sound

Fall, Spring. 3(3-0) P: (MTH 104 or concurrently or MTH 110 or concurrently or MTH 116 or concurrently or MTH 120 or concurrently or MTH 124 or concurrently or MTH 201 or concurrently or STT 200 or concurrently or STT 201 or concurrently) Designated score on Mathematics placement test. Not open to students with credit in TCC 321.

The science behind sound. 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**

ISS

**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)

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)

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.

SA: ISS 335A

**336. Canada: Social Science
Perspectives (I)**

Spring. 4(4-0) P: (ISS 210 or ISS 215 or ISS 220 or ISS 225)

Canadian political, economic, and social institutions. Ethnic and other forms of diversity in Canada. North American national comparisons.

SA: ISS 335B

INTERNAL MEDICINE IM

**Department of Internal Medicine
College of Osteopathic Medicine**

**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.