205. Visions of the Universe
Fall, Spring, Summer. 3(0-0)
P: MTH 104 or 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.

205L. Visions of the Universe Laboratory
Fall, Spring, Summer. 1(0-2)
C: ISP 205.
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, acid-base; chemicals in air, water, food and biological systems.

207L. World of Chemistry Laboratory
Fall, Spring, Summer. 1(0-2)
C: ISP 207.
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.
Physical phenomena: optics, mechanical systems and electromagnetics.

211. The Structure of Matter
Fall, Spring, Summer. 3(0-0)
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 matter. Physical laws governing the structure of matter.

INTEGRATIVE STUDIES IN SOCIAL, BEHAVIORAL and ECONOMIC SCIENCES

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. Class, caste, gender, race and other factors which define social position. Education, occupation, political economy.

229. 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.

325B. National Diversity and Change: Canada (D)
Fall, Spring, Summer. 4(4-0)
P: One 200-level ISS course.

INTERNAL MEDICINE

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.

618. Clinical Tropical Medicine
Fall. 2/3-0
R: Approval of department.
Selected topics such as African AIDS, malaria, onchocerciasis, tuberculosis, and schistosomiasis. Pathophysiology, treatments, epidemiology, current research, and controversies.
SA: CMS 618

620. Directed Studies
Fall, Spring, Summer. 1 to 30 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.

621. Clinical Tropical Medicine Clerkship
Spring. 1 to 20 credits. A student may earn a maximum of 20 credits in all enrollments for this course.
P: IM 618. R: Open only to graduate-professional students in the College of Osteopathic Medicine in final year.
Supervised clinical experience in a large African teaching hospital and its outpatient clinic; students must spend at least six weeks on site. Small group discussions led by MSU faculty.
SA: CMS 621

650. Medicine Clerkship
Fall, Spring, Summer. 1 to 20 credits. A student may earn a maximum of 20 credits in all enrollments for this course.
P: Open only to graduate-professional students in the College of Osteopathic Medicine upon completion of Units I and II.
Clinical exposure in osteopathic medicine. Program developed to achieve proficiency in motor skills and aptitudes; comprehension of concepts and principles; patient evaluation; diagnosis; management; therapy.

661. Cardiology Clerkship
Fall, Spring, Summer. 1 to 20 credits. A student may earn a maximum of 30 credits in all enrollments for this course.
P: Open only to graduate-professional students in the College of Osteopathic Medicine upon completion of Units I and II.
Intensive experience in bedside diagnosis and care of patients with the more frequently seen cardiac problems.
ITALIAN

101. Elementary Italian I
Fall, Spring, 4(4-1)
P: No previous experience in Italian or approval of department.
Practice in using and understanding Italian to develop listening, speaking, reading, and writing skills. Pronunciation, grammar, vocabulary, and cultural topics.

102. Elementary Italian II
Fall, Spring, 4(4-1)
P: ITL 101 or approval of department.
Further practice in using and understanding Italian to develop listening, speaking, reading, and writing skills. Pronunciation, grammar, vocabulary, and cultural topics.

201. Second-Year Italian I
Fall, Spring, 4(4-1)
P: ITL 102 or approval of department.
Intermediate-level review and development of aural comprehension, speaking, reading, and writing skills. Topics in Italian culture.

202. Second-Year Italian II
Spring, 4(4-1)
P: ITL 201.
Further review and development of aural comprehension, speaking, reading, and writing skills. Topics in Italian culture.

290. Independent Study
Fall, Spring, 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course.
P: Approval of department.
Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.

320. Advanced Grammar and Composition
Fall, 3(3-0)
Compositions in a variety of styles and modes. Review of grammar. Extensive practice in writing.

330. Italian Culture and Civilization
Spring, 3(3-0)
Diverse aspects of political, social, economic, intellectual, artistic, and literary life of Italy. Class discussion in Italian of readings, films, television programs, and musical selections.

340. Phonetics and History of the Italian Language
Spring, 3(3-0)
P: ITL 330.
Phonetic description of the sound system to improve pronunciation and spoken Italian. Historical, linguistic, and cultural issues which influenced the development of modern Italian.

350. Introduction to Italian Literature
Fall, 3(3-0)
P: ITL 330.
Italian literature from its origins to the present. Reading and discussion in Italian of representative works from all genres.

355. Italian Literature in English Translation
Spring, 3(3-0)
P: Not open to freshmen.
Representative works and themes of Italian literature.