221B. Great Ages: The European Renaissance
Fall of odd years. 4(4-0) P: (IAH 201)
Arts and humanities of Renaissance Europe: literature, visual arts, music, religion and philosophy presented in historical context. Selected themes, variable by term.

221C. Great Ages: The Modern World (I)
Fall, Spring. 4(4-0) P: (IAH 201)
Arts and humanities of the modern world, examined through the frame of urban and intellectual life. Literature, visual arts, music, religion and philosophy presented in historical context. Selected regions and themes. Variable by term.

231A. Themes and Issues: Human Values and the Arts and Humanities
Fall, Spring. 4(4-0) P: (IAH 201)
Values of individualism, responsibility, love, community, and rationality. Students are introduced to diverse methods and materials from the arts and humanities.

231B. Themes and Issues: Moral Issues and the Arts and Humanities
Fall, Spring. 4(4-0) P: (IAH 201)
Human conflict and moral dilemmas, addressed through diverse methods and materials from the arts and humanities.

231C. Themes and Issues: Roles of Language in Society (D)
Fall, Spring. 4(4-0) P: (IAH 201)
Language as the medium of culture in various societies. Power and social identity as manifested through language. Students are introduced to diverse methods and materials from the arts and humanities.

241A. Creative Arts and Humanities: Music and Society in the Modern World (D)
Fall of even years. 4(4-0) P: (IAH 201)
The arts and humanities of the modern world through the prism of music. Music traditions and methodologies in their historic context. Relationship of music creativity to societies in which it has been produced.

241B. Creative Arts and Humanities: Philosophy in Literature
Spring. 4(4-0) P: (IAH 201)
Philosophy and literature, relationships to each other and to societies in which they were produced. Themes such as the meaning of life, God and the problem of evil, and the nature of knowledge. Authors such as Voltaire, Dostoevsky, Wright, and Atwood examined from a variety of perspectives.

241C. Creative Arts and Humanities: Cultural and Artistic Traditions of Europe
Fall, Spring. 4(4-0) P: (IAH 201)
European artistic and cultural movements and styles, introduced through works of art, music, literature, philosophy and religion. Presented in historical context. Specific eras and works variable by term.

241D. Creative Arts and Humanities: Theater and Society in the West
Spring. 4(4-0) P: (IAH 201)
Artistic creativity seen through the prism of theater. Presented in historical context. Influences from art, literature, music, and religion. Focus on translation of social visions into dramatic art. Plays and themes variable by term.

241E. Creative Arts and Humanities: The Creative Process
Spring of even years. 4(4-0) P: (IAH 201)
Philosophical, religious and historical foundations for understanding the process of creation in visual arts, theatre, music and literature. Variations across eras and societies.

241F. Creative Arts and Humanities: Traditions in World Art (I)
Fall. 4(4-0) P: (IAH 201)
Aesthetic qualities of painting, sculpture and architecture within historical contexts across major civilizations. Visual forms in relation to belief systems and musical and literary traditions.

INTEGRATIVE STUDIES IN BIOLOGICAL SCIENCE

Center for Integrative Studies in General Science

200. History of Life
Fall, Spring. Summer. 3(3-0) P: MTH 103 or MTH 110 or MTH 116 or MTH 120 or MTH 201 or STT 200 or STT 201 or concurrently or designated score on mathematics placement test.
Life from its origin to the dawn of human history. Living things as both the products of evolutionary processes and as a major force driving evolution and altering the environment of planet earth.

202. Applications of Environmental and Organismal Biology
Fall, Spring. Summer. 3(3-0) P: MTH 103 or MTH 110 or MTH 116 or MTH 120 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.

202L. Applications of Environmental and Organismal Biology Laboratory
Fall, Spring. Summer. 1(0-2) C: ISB 202 concurrently.
Problem solving activities based on observation and the analysis of empirically derived data from environmental and organismal biology.

204. Applications of Biomedical Sciences
Fall, Spring. Summer. 3(3-0) P: MTH 103 or MTH 110 or MTH 116 or MTH 120 or concurrently or designated score on mathematics placement test.
Historical and recent development of knowledge about cellular developmental or genetic processes. Critical evaluation of the use and misuse of scientific discoveries in these areas.

204L. Applications of Biomedical Science Laboratory
Fall, Spring, Summer. 1(0-2) C: ISB 204 concurrently.
Problem solving activities based on observation and interpretation of selected biological systems in relation to medical science.

206H. Human Biology and Society
Fall, Spring. 3(3-0) P: MTH 103 or MTH 110 or MTH 116 or MTH 120 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.

INTEGRATIVE STUDIES IN PHYSICAL SCIENCE

Center for Integrative Studies in General Science

College of Natural Science

201. Concepts of Reality through Physical Science
Fall, Spring, Summer. 3(3-0) P: MTH 110 or MTH 116 or MTH 120 or MTH 201 or STT 200 or STT 201 or concurrently or designated score on mathematics placement test.
Historical and recent development of our understanding of the physical world. Selected topics from the physical sciences, their relationship to one another and to other areas of culture.

201L. Concepts of Reality through Physical Science Laboratory
Fall, Spring, Summer. 1(0-2) C: ISP 201 concurrently.
Problem solving activities based on observation and interpretation of selected physical systems.

203. Geology of the Human Environment
Fall, Spring, Summer. 3(3-0) P: MTH 110 or MTH 116 or MTH 120 or MTH 201 or STT 200 or STT 201 or concurrently or designated score on mathematics placement test.
The scientific method in geological studies: its impact on the human environment and history, and on cultural, social, philosophical, and political decisions.

203L. Geology of the Human Environment Laboratory
Fall, Spring, Summer. 1(0-2) C: ISP 203 concurrently.
Exercises in the scientific method applied to earth materials and their impact on society.

205. Visions of the Universe
Fall, Spring. Summer. 3(3-0) 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 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.

209L. The Mystery of the Physical World Laboratory
Fall, Spring, Summer. 1(0-2) C: ISP 209 concurrently.
Chemical combinations and reactivity with respect to such materials as acids, bases, dyes, foods, and detergents.

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. The Science of Sound
Fall, Spring, Summer. 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 or 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.

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.

_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.